

VP-D381(i)
VP-D382(i)
VP-D382H
VP-D384
VP-D385(i)

Digital Video Camcorder user manual

imagine the possibilities

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your product at

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SAMSUNG

key features of your miniDV camcorder

FEATURES OF YOUR NEW MINIDV CAMCORDER

Digital Data Transfer Function with IEEE1394

By incorporating the IEEE 1394 (i.LINK™: i.LINK is a serial data transfer protocol and interconnectivity system, used to transmit DV data) high speed data transport port, both moving and photo images can be transferred to a PC, making it possible to produce or edit various images.

USB Interface for Digital Image Data Transfer (VP-D385(i) only)

You can transfer images to a PC using the USB interface without an add-on card.

Tape Photo Recording on a Tape

Tape photo recording makes it possible to record a photo image on a tape.

800K pixel CCD (VP-D385(i) only)

Your camcorder incorporates a 800K pixel CCD. Photo images can be recorded to a memory card.

1200x Digital Zoom

Allows you to magnify an image up to 1200 times its original size.

Audio Enhancement

Provides more powerful sound with the Real Stereo and Audio Effect features.

Colour TFT LCD

A high-resolution colour TFT LCD gives you clean, sharp images as well as the ability to review your recordings immediately.

Digital Image Stabilizer (DIS)

The DIS compensates for any hand shaking, reducing unstable images particularly at high magnification.

Various Visual Effects

The Visual Effects allow you to give your films a special look by adding various special effects.

Back Light Compensation (BLC)

The BLC function compensates for a bright background behind a subject you're recording.

Program AE

The Program AE enables you to alter the shutter speed and aperture to suit the type of scene/action to be filmed.

High Power Zoom Lens

Power Zoom lens allows users to magnify the subject clearly up to 34x.

Digital Still Camera Function (VP-D385(i) only)

- Using memory card, you can easily record and playback standard photo images.
- You can transfer standard photo images on the memory card to your PC using the USB interface.

Moving Image Recording on a Memory Card (VP-D385(i) only)





Moving image recording makes it possible to record video onto a memory card.

MMC/SD card slot (VP-D385(i) only)

MMC/SD card slot can use MMC (Multi Media Cards) and SD cards.

safety warnings

What the icons and signs in this user manual mean :

 WARNING	Means that death or serious personal injury is a risk.
 CAUTION	Means that there is a potential risk for personal injury or material damage.
 CAUTION	To reduce the risk of fire, explosion, electric shock, or personal injury when using your miniDV camcorder, follow these basic safety precautions:
	Means hints or referential pages that may be helpful when operating the miniDV camcorder.

These warning signs are here to prevent injury to you and others.

Please follow them explicitly. After reading this section, keep it in a safe place for future reference.

precautions

Warning!

- This camcorder should always be connected to an AC outlet with a protective grounding connection.
- Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

Caution

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

notes and safety instructions

NOTES REGARDING THE VIDEO HEAD CLEANING

- To ensure normal recording and a clear picture, clean the video heads regularly.
If a square block-shape distorts playback, or only a blue screen is displayed, the video heads may be dirty.
If this happens, clean the video heads with a dry type cleaning cassette.
- Do not use a wet-type cleaning cassette. It may damage the video heads.

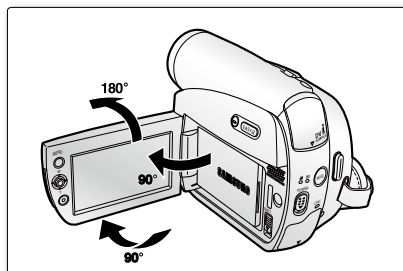
ADJUSTING THE LCD SCREEN

Please rotate the LCD screen carefully as illustrated. Over rotation may cause damage to the inside of the hinge that connects the LCD screen to the camcorder.

1. Open the LCD screen 90 degrees from the camcorder with your finger.
2. Rotate it to the best angle to record or play.
 - If you rotate the LCD screen 180 degrees so it is facing forward, you can close the LCD screen with the display facing out.
 - This is convenient during playback operations.



Refer to page 31 to adjust brightness and colour of the LCD screen.




NOTES REGARDING THE LCD SCREEN

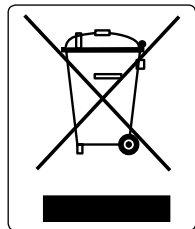
- Direct sunlight can damage the LCD screen, the inside of the the Lens. Take pictures of the sun only in low light conditions, such as at dusk.
- The LCD screen has been manufactured using high precision technology. However, there may be tiny dots (red, blue or green in colour) that appear on the LCD screen. These dots are normal and do not affect the recorded picture in any way.
- Do not pick up the camcorder by holding the LCD screen or battery pack.

SERVICING & REPLACEMENT PARTS

- Do not attempt to service this camcorder yourself.
- Opening or removing covers may expose you to dangerous voltage or other hazards.
- Refer all servicing to qualified service personnel.
- When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer and having the same characteristics as the original part.
- Unauthorised substitutions may result in fire, electric shock or other hazards.

NOTES REGARDING CAMCORDER

- Do not leave the camcorder exposed to high temperatures (above 60 °C or 140 °F). For example, in a parked car in the sun or exposed to direct sunlight.
- Do not let the camcorder get wet. Keep the camcorder away from rain, sea water, and any other form of moisture. If the camcorder gets wet, it may get damaged. Sometimes a malfunction due to exposure to liquids cannot be repaired.
- A sudden rise in atmospheric temperature may cause condensation to form inside the camcorder.
 - When you move the camcorder from a cold location to a warm location (e.g. from outside to inside during the winter.)
 - When you move the camcorder from a cool location to a hot location (e.g. from inside to outside during the summer.)
- If the  (DEW) protection feature is activated, leave the camcorder for at least two hours in a dry, warm room with the cassette compartment opened and the battery pack removed.
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

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getting to know your miniDV camcorder

WHAT IS INCLUDED WITH YOUR MINIDV CAMCORDER

Your new Digital Video camcorder comes with the following accessories. If any of these items is missing from your box, call Samsung's Customer Care Centre.

✱ The exact appearance of each item may vary by model.



Battery Pack
(IA-BP80W)



AC Power Adapter
(AA-E9 type)



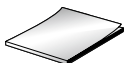
Audio/Video Cable



USB Cable
(VP-D385(i) only)



Software CD
(VP-D385(i) only)



User Manual



Button-type Battery for Remote Control
(Type: CR2025)
(VP-D382(i)/D382H/
D385(i) only)



Remote Control
(VP-D382(i)/D382H/
D385(i) only)



Lens Cover



Lens Cover Strap



Tape* (Option)

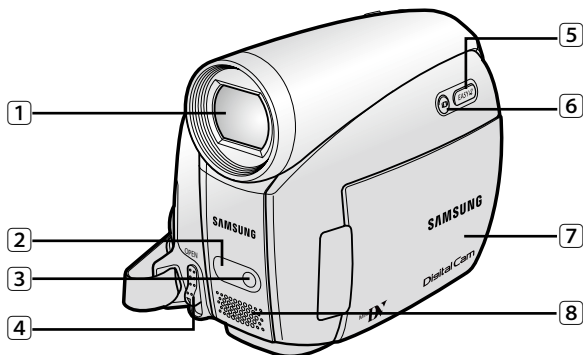


Carrying Case* (Option)



- The contents may vary depending on the sales region.
- Parts and accessories are available at your local Samsung dealer.
- ***(Option)** : This is an optional accessory. To buy this one, contact your nearest Samsung dealer.
- A memory card is not included. See page 74 for memory cards compatible with your miniDV camcorder.

FRONT & LEFT VIEW




① Lens

② Remote sensor (VP-D382(i)/D382H/D385(i) only)

③ Light (VP-D382(i)/D382H/D384/D385(i) only)

④ OPEN switch

⑤ EASY Q button  page 36

⑥ Display () button

⑦ TFT LCD screen

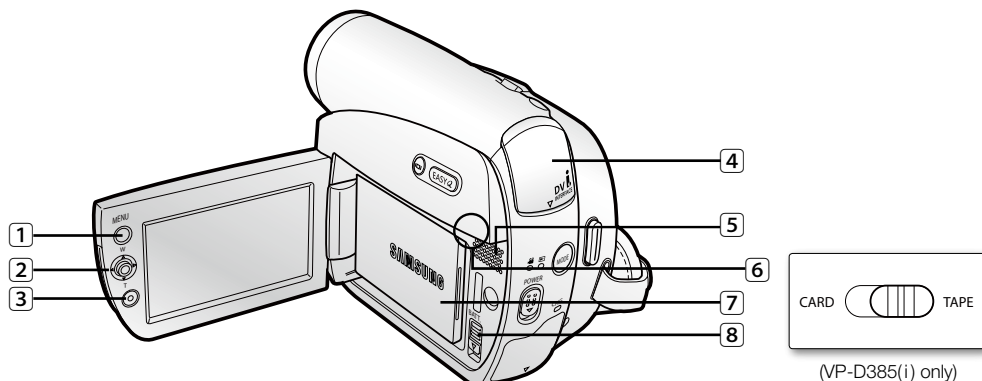
⑧ Internal microphone



Be careful not to cover the internal microphone and lens during recording.

getting to know your miniDV camcorder

LEFT SIDE VIEW

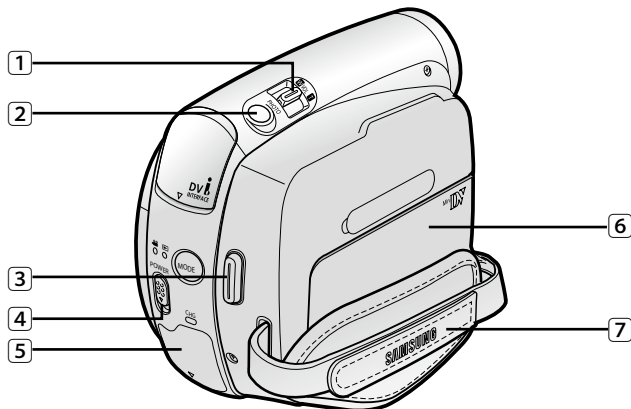


- 1 MENU button
- 2 Joystick (▲ / ▼ / ◀ / ▶ / Select), (W/T) ➞ page 23
- 3 Recording start/stop button
- 4 Jack cover (AV/DV jack)

- 5 Built-in speaker
- 6 Select (CARD-TAPE) switch (VP-D385(i) only)
- 7 Battery pack
- 8 Battery release (BATT.) switch

 When you close LCD panel with the LCD screen facing out, Joystick (▲/▼/◀/▶) function works reversely.

RIGHT & TOP VIEW



1 Zoom(W/T) / Volume (VOL) lever

2 PHOTO button ➡ page 60,78

3 Recording start/stop button

4 POWER switch

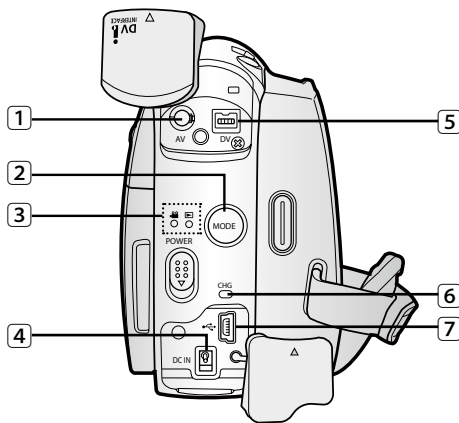
5 Jack cover (DC IN, USB (VP-D385(i) only) jack)



6 Cassette compartment cover

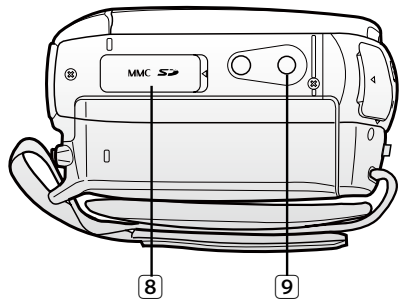
7 Hand strap

getting to know your miniDV camcorder








REAR & BOTTOM VIEW



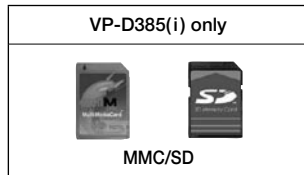
- 1 AV jack
- 2 MODE button
- 3 Mode indicator (Camera () / Player () mode)
- 4 DC IN Jack
- 5 DV (IEEE1394) jack
- 6 Charging (CHG) indicator
- 7 USB jack (VP-D385(i) only)
- 8 Memory card slot (VP-D385(i) only)
- 9 Tripod receptacle



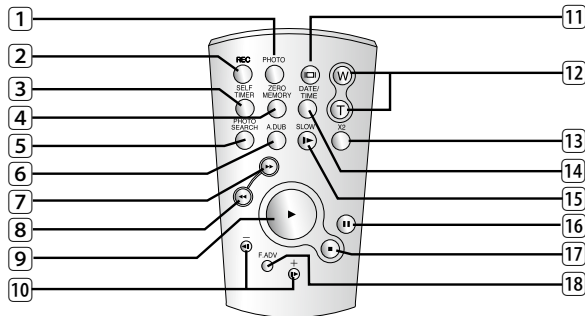
Jacks

VP-D385(i)				
	AV	DV	DC IN	USB
VP-D381(i)/D382(i) /D382H/D384				
	AV	DV	DC IN	

Usable Memory Cards (2GB Max)



USING THE REMOTE CONTROL (VP-D382(i)/D382H/D385(i) ONLY)



1 PHOTO button ➡ page 60,78

2 REC button

3 SELF TIMER button ➡ page 39

4 ZERO MEMORY button ➡ page 38

5 PHOTO SEARCH button ➡ page 61

6 A.DUB button ➡ page 65

7 ►► (FF) button

8 ◀◀ (REW) button

9 ► (PLAY) button

10 ◀◀ (-) / ►► (+) (Direction) button ➡ page 64

11 Display (|□|) button

12 W/T (Zoom) button

13 X2 button ➡ page 64

14 DATE/TIME button

15 ►► (SLOW) button

16 || (PAUSE) button

17 ■ (STOP) button

18 F. ADV button ➡ page 64



The buttons on the remote control function the same as those on the miniDV camcorder.

preparation

This section provides information on using this miniDV camcorder: such as how to use the provided accessories, how to charge the battery, how to set up the operation and screen indicators in each mode.

USING THE HAND STRAP & LENS COVER

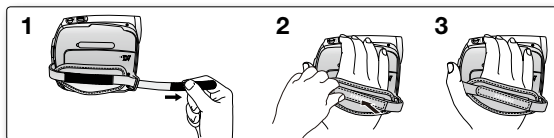
It is very important to ensure that the hand strap has been correctly adjusted before you begin your recording. The hand strap enables you to:

- Hold the camcorder in a stable, comfortable position.
- Put your hand in a position where you can easily operate the **Recording start/stop** button, **PHOTO** button, and the **Zoom** lever.

Hand Strap

Adjusting the Hand Strap

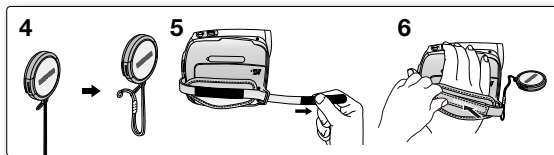
1. Insert the hand strap into the hand strap hook on the front side of the camcorder and pull its end through the hook.
2. Insert your hand into the hand strap and adjust its length for your convenience.
3. Close the hand strap.



Lens Cover

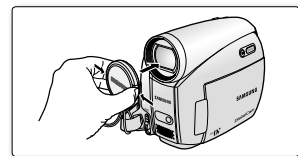
Attaching the Lens Cover

4. Hook up the lens cover with the lens cover strap as illustrated.
5. Hook up the lens cover strap to the hand strap, and adjust it following the steps as described for the hand strap.
6. Close the hand strap.



Installing the Lens Cover after Operation

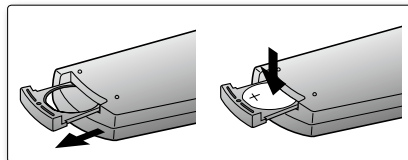
Press buttons on both sides of the lens cover, then attach it to the camcorder lens.



INSTALLING THE BUTTON-TYPE BATTERY

Button-type battery installation for the remote control (VP-D382(i)/D382H/D385(i) only)

1. Pull out the button-type battery holder toward the direction of the arrow.
2. Position the button-type battery in the button-type battery holder, with the positive (\oplus) terminal face up.
3. Reinsert the button-type battery holder.



Precaution regarding the button-type battery

- There is a danger of explosion if button-type battery is incorrectly replaced. Replace only with the same or equivalent type.
- Do not pick up the battery using tweezers or other metal tools. This will cause a short circuit.
- Do not recharge, disassemble, heat or immerse the battery in water to avoid the risk of explosion.




Keep the button-type Battery out of reach of children. Should a battery be swallowed, seek medical attention immediately.

preparation


USING THE BATTERY PACK

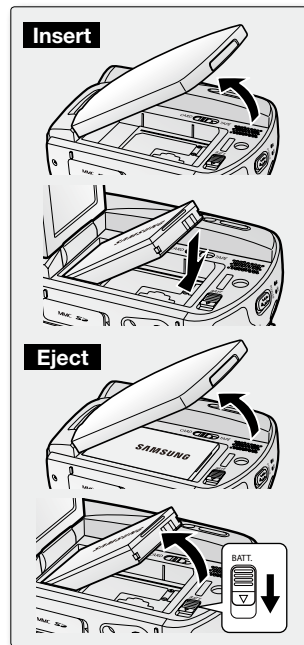
- Use the IA-BP80W battery pack only.
- The battery pack may be charged a little at the time of purchase.
- Be sure to charge the battery pack before you start using your miniDV camcorder.

Inserting / Ejecting the battery pack

1. Open the LCD screen as shown in the diagram.
 2. Insert the battery pack into the battery pack slot until it softly clicks.
 - Make sure that word mark (SAMSUNG) is facing out while the camcorder is placed as shown in the diagram.
 3. Slide the **BATT.** release switch and pull out the battery pack.
 - Gently slide the **BATT.** release switch in the direction as shown in the diagram.
- 
 - Additional battery packs are available at your local Samsung dealer.
 - If the miniDV camcorder will not be in use for a while, remove the battery pack from the miniDV camcorder.

Charging the Battery Pack

1. Slide the **POWER** switch downwards to turn off the power.
 2. Insert the battery pack to the camcorder.
 3. Open the jack cover and connect the AC power adaptor to the DC IN jack.
 4. Connect the AC power adaptor to a wall socket.
 5. Once charged, disconnect the AC power adaptor from the DC IN jack on your camcorder.
 - Even with the power switched off, the battery pack will still discharge if it is left inserted in the camcorder.
-  It is recommended that you purchase one or more additional battery packs to allow continuous use of your miniDV camcorder.

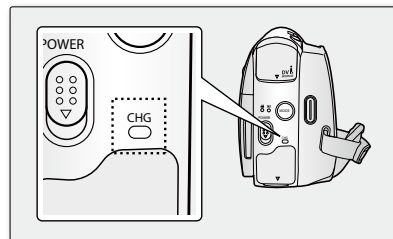


Use only Samsung-approved battery packs. Do not use batteries from other manufacturers. Otherwise, there is a danger of overheating, fire or explosion. Samsung is not responsible for problems occurred due to using unapproved batteries.

Charging indicator

The colour of the LED indicates the power or charging state.

- If the battery pack has been fully charged, the charge indicator is green.
- If you are charging the battery, the colour of the charge indicator is orange.
- If an error occurs while the battery pack is charging, the charging indicator blinks orange.



<Charging indicator>

Charging, Recording Times with a fully charged battery pack (with no zoom operation, LCD open, etc.)

- Measured times shown in the table are based on model VP-D385(i).
(Times for VP-D381(i)/D382(i)/D382H/D384/D385(i) are almost the same.)
- The time is only for reference. Figures shown in the table are measured under Samsung's test environment, and may differ from your actual use.
- The recording time shortens dramatically in a cold environment. The continuous recording times in the operating instructions are measured using a fully charged battery pack at 25 °C (77 °F). As the environmental temperature and conditions vary, the remaining battery time may differ from the approximate continuous recording times given in the instructions.


Battery \ Time	Charging time	Recording time
IA-BP80W	Approx. 1hr 20min	Approx. 1hr 20min

preparation

The amount of continuous recording time available depends on:

- The type and capacity of the battery pack you are using.
- Ambient temperature.
- How often the zoom function is used.
- Type of use (camcorder/camera/With LCD screen etc.)
- It is recommended that you have several batteries available.



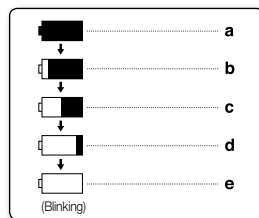
- To check the remaining battery charge, press and hold the **Display** () button. ➡ page 21
- The charging time will vary depending on the remaining battery level.

Battery Level Display

The battery level display indicates the amount of power remaining in the battery pack.

- | | |
|-------------------------------|----------------|
| a. Fully charged | b. 20~40% used |
| c. 40~80% used | d. 80~95% used |
| e. Completely used (Blinking) | |

(The Camcorder will turn off soon, change the battery as soon as possible.)



Battery Pack Management

- The battery pack should be recharged in an environment between 0 °C (32 °F) and 40°C (104 °F).
- The life and capacity of the battery pack will be reduced if it is used in temperatures below 0 °C (32 °F) or left in temperatures above 40 °C (104 °F) for a long period of time, even when it is fully recharged.
- Do not put the battery pack near any heat source (i.e. fire or a heater).
- Do not disassemble, apply pressure to, or heat the battery pack.
- Do not allow the + and – terminals of the battery pack to be short-circuited. It may cause leakage, heat generation, induce overheating or fire.

Notes regarding the Battery Pack

- Please refer to the table on page 15 for approximate continuous recording time.
- The recording time is affected by temperature and environmental conditions.
- The recording time shortens dramatically in a cold environment, as the environmental temperature and conditions vary.
- The continuous recording times in the operating instructions are measured using a fully charged battery pack at 25 °C (77 °F). The remaining battery time may differ from the approximate continuous recording times given in the instructions.
- **When purchasing a new battery pack, we recommend buying the same battery pack that is provided with this camcorder. The battery pack is available at SAMSUNG retailers.**
- When the battery reaches the end of its life, please contact your local dealer.
Batteries should be handled as chemical waste.
- Make sure that the battery pack is fully charged before starting to record.
- A brand new battery pack is not charged. Before using the battery pack, you need to charge it completely.
- The battery pack may be prone to leakage when fully discharged.
Fully discharging a battery pack damages the internal cells.
- To preserve battery power, keep your camcorder turned off when you are not operating it.
- If your camcorder is in **Camera** mode, and it is left in **STBY** mode without being operated for more than 5 minutes with a tape inserted, it will automatically turn itself off to protect against unnecessary battery discharge.
- Do not drop the Battery Pack. Dropping the battery pack may damage it.

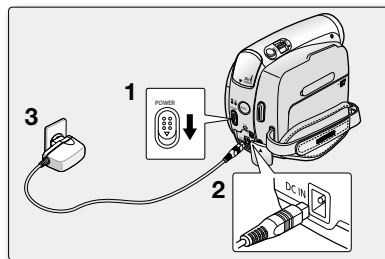
CONNECTING A POWER SOURCE

- There are two types of power source that can be connected to your camcorder.
 - The AC Power Adapter: used for indoor recording.
 - The Battery Pack: used for outdoor recording.

Using a Household Power Source

Connect to a household power source to use the camcorder without having to worry about the battery power. You can keep the battery pack attached; the battery power will not be consumed.

1. Slide the **POWER** switch downwards to turn off the power.
2. Open the jack cover and connect the AC power adaptor to the DC IN jack.
3. Connect the AC power adaptor to a wall socket.
 - The plug and wall socket type may differ according to your resident country.
4. Slide the **POWER** switch downwards to turn on the power and press the **MODE** button to set **Camera** (📷) or **Player** (▶).



preparation

BASIC MINIDV CAMCORDER OPERATION

Turning the miniDV camcorder on and off

You can turn the camcorder on or off by sliding the **POWER** switch downward.

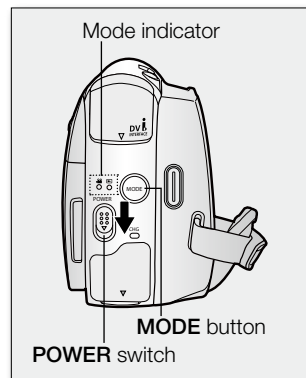
- Slide the **POWER** switch repeatedly to toggle the power on or off.

Setting the operating modes

- Set the operation mode by adjusting the **MODE** button and **Select switch** (**VP-D385(i)** only) before operating any functions.

- Press the **MODE** button to set **Camera** (📹) or **Player** (📺).
Each press of the **MODE** button toggles between the **Camera** (📹) mode and **Player** (📺) mode.
- Set the **Select switch** to **CARD** or **TAPE**. (**VP-D385(i)** only)
 - Camera** mode (📹): To record movie or photo images on a tape. ➡page 19
 - Player** mode (📺): To play movie or photo images on a tape. ➡page 19
 - M.Cam** mode (📹): To record movie or photo images on memory card. ➡page 20
 - M.Player** mode (📺): To play movie or photo images on memory card. ➡page 20

- The operating modes are determined by the position of the **MODE** button and **Select switch** (**VP-D385(i)** only).



Mode Name	Camera Mode	Player Mode	M.Cam Mode	M.Player Mode
MODE button				
Select switch (VP-D385(i) only)	CARD	CARD	CARD	CARD

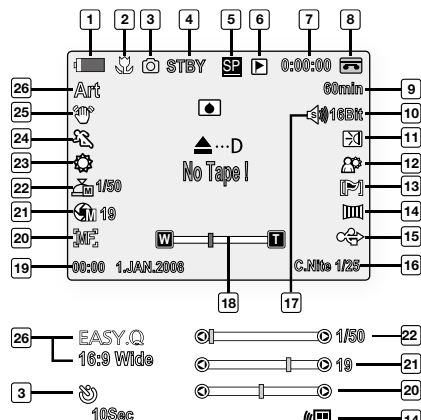


- M.Cam Mode : Memory Camera Mode
- M.Player Mode : Memory Player Mode

- The M.Cam Mode and the M.Player Mode are only available on the models, (**VP-D385(i)** only).

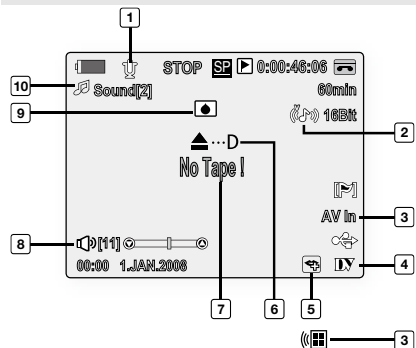
SCREEN INDICATORS IN CAMERA / PLAYER MODES

OSD in Camera Mode



- 1 Battery Level ➡ page 16
- 2 Tele Macro * ➡ page 54
- 3 Tape photo recording ➡ page 60 / Self timer * ➡ page 39 (VP-D382(i)/D382H/D385(i) only)
- 4 Operating Mode
- 5 Record Speed Mode ➡ page 44
- 6 Zero Memory ➡ page 38 (VP-D382(i)/D382H/D385(i) only)
- 7 Time counter (movie recording time)
- 8 Tape Indicator
- 9 Remaining Tape (measured in minutes)
- 10 Audio Mode ➡ page 44
- 11 Light * ➡ page 59 (VP-D382(i) /D382H/D384/D385(i) only)
- 12 BLC (Back Light Compensation)* ➡ page 56
- 13 WindCut Plus * ➡ page 45
- 14 Fade ➡ page 41/ Remote ➡ page 25 (VP-D382(i) /D382H/D385(i) only)
- 15 USB * ➡ page 98 (VP-D385(i) only)
- 16 C.Nite * ➡ page 58
- 17 Real Stereo ➡ page 46
- 18 Zoom Position * ➡ page 37
- 19 Date/Time ➡ page 32
- 20 Manual Focus * ➡ page 42
- 21 Manual Exposure * ➡ page 43
- 22 Shutter Speed * ➡ page 43
- 23 White Balance * ➡ page 49
- 24 Program AE * ➡ page 47
- 25 DIS * ➡ page 55
- 26 Visual Effects Mode * ➡ page 51 EASY.Q * ➡ page 36 16:9 Wide ➡ page 53

OSD in Player Mode

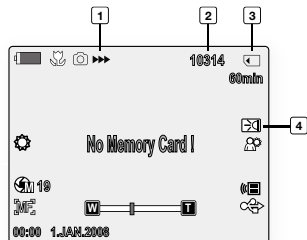


- 1 Audio Dubbing ➡ page 65 (VP-D382(i) /D382H/D385(i) only)
- 2 Audio Effect ➡ page 67
- 3 AV IN * ➡ page 68 (VP-D381i/D382i/D385i only) / Remote ➡ page 25 (VP-D382(i) /D382H/D385(i) only)
- 4 DV IN (DV date transfer mode) ➡ page 93
- 5 VOICE+ Indicator ➡ page 72
- 6 Warning Indicator ➡ page 103
- 7 Message Line ➡ page 103
- 8 Volume Control * ➡ page 62
- 9 DEW ➡ page 104
- 10 Dubbed Audio Playback ➡ page 66

preparation

SCREEN INDICATORS IN M.CAM / M.PLAYER MODES (VP-D385(i) ONLY)

OSD in M.Cam Mode

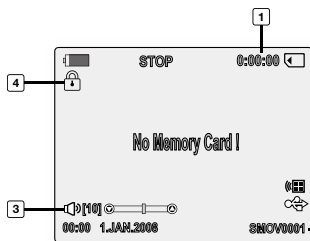


- 1 Image Recording and Loading Indicator
- 2 Image Counter (Total number of recordable photo images)
- 3 CARD (Memory Card) Indicator
- 4 Light [page 59](#)
(VP-D382(i)/D382H/D384/D385(i) only)

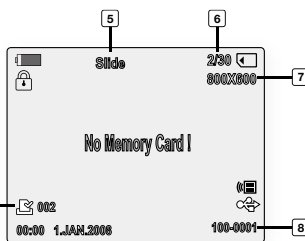


- OSD indicators shown here are based on model VP-D385(i).
- The above screen is an example; it is different from the actual display.
- The OSD indicators are based on memory capacity of 2GB (VP-D385(i) only).
- For enhanced performance, the display indications and the order are subject to change without prior notice.
- Functions marked with * will not be retained when the miniDV camcorder is powered on after turning it off.

OSD in M.Player Mode



(Movie images)




(Photo images)

- 1 Time counter (movie recording time)
- 2 File number of the moving image
- 3 Volume Control * [page 86](#)
- 4 Erase Protection Indicator [page 80](#)
- 5 Slide [page 79](#)
- 6 Image Counter (Current photo image/ Total number of recordable photo images)
- 7 Photo image size [page 75](#)
- 8 Folder Number - File Number [page 77](#)
- 9 Print Mark [page 89](#)

USING THE DISPLAY () BUTTON

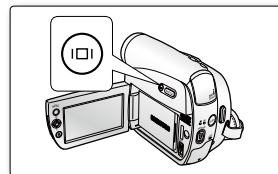
You can switch between the on-screen information display modes: Press the **Display** () button.

Switching the information display mode


You can switch between the on-screen information display modes:
Press the **Display** () button.

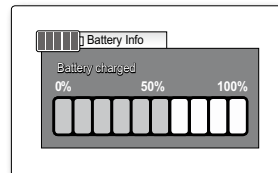
The full and minimum display modes will alternate.

- Full display mode: All information will appear.
- Minimum display mode: Only operating status indicators will appear.



Checking the remaining battery

- Press and hold the **Display** () button while charging with the power off. After a while, the charging status will be displayed on the LCD screen for 7 seconds.
- The battery charge status is given as reference and is an estimation. It may differ depending on the battery capacity and temperature.




preparation

USING THE JOYSTICK

Used for playback, pausing, fast forwarding, and rewinding. Also used as directional buttons (up, down, left, right) and to make a selection when selecting movie, photo images or menus.

1. Move the **Joystick** (▲ / ▼) up or down.
2. Move the **Joystick** (◀ / ▶) left or right.
 - Confirm your selection by pressing **Joystick**.


 For more information on the OSD menus displayed using the Joystick (▲ / ▼ / ◀ / ▶), see page 23.

HANDLING QUICK MENUS WITH THE JOYSTICK

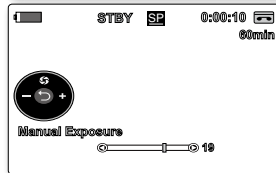
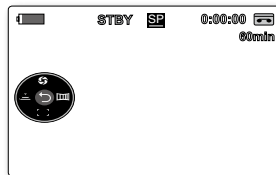
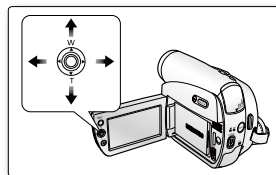
Using the **Joystick**, you can easily access to frequently used menus without using the **MENU** button.

✱ Follow the instruction below to use each of the menu items listed after this page.
For example: setting the Exposure in **Camera** (📷) mode

1. Press the **Joystick**.
 - Quick menu is displayed.
2. Press the **Joystick** (▲ / ▼ / ◀ / ▶) to control the setting.
 - Moving the Joystick up toggles between "**Auto Exposure**" and "**Manual Exposure**".
3. Press the **Joystick** to confirm your selection.
 - Press the Joystick button to exit the quick menu according to the selected mode.





- There are some functions you cannot activate simultaneously when using **Joystick**. You cannot select the menu items greyed out on the screen.
- Accessible items in menu and quick menu vary depending on the operation mode.

















HANDLING QUICK MENUS WITH THE JOYSTICK

Quick Menu In Camera /Player modes

Joystick	Camera (📷) Mode		Player (▶) Mode					
Status		-		STOP	PLAY	PAUSE	FF	REW
Input				-	-	-	-	-
▲		Exposure		-	STOP	STOP	STOP	STOP
▼		Focus		-	STOP	STOP	STOP	STOP
◀		Shutter		REW	REW	REW	REW	REW
▶		Fade		FF	FF	FF	FF	FF
OK		Return / Selection / Exit the menu		PLAY	PAUSE	PLAY	PLAY	PLAY

Quick Menu In M.Cam / M.Player modes (VP-D385(i) only)

Joystick	M.Cam () Mode		M.Player () Mode (Movie images)						M. Player () Mode (Photo images)	
Input <div>Status</div>		-		STOP	PLAY	PAUSE	FF	REW		-
		Exposure		-	-	-	-	-		Delete
		Focus		Thumbnail	STOP	STOP	STOP	STOP		Thumbnail
		-		Previous Skip	REW	REW	REW	REW		Previous Skip
		-		Next Skip	FF	FF	FF	FF		Next Skip
OK		Return/ Selection/Exit the menu		PLAY	PAUSE	PLAY	PLAY	PLAY		Slide Show

initial setting : system menu setting

SETTING THE CLOCK (CLOCK SET)

- Clock setup works in **Camera / Player / M.Cam / M.Player** modes. ➡page 18
- Set the date and time when using this camcorder for the first time.

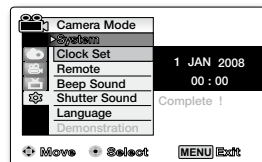
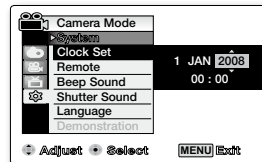
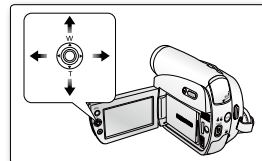
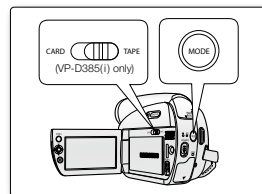
1. Set the **Select** switch to **CARD** or **TAPE**. (VP-D385(i) only)
2. Press the **MODE** button to set **Camera** (📷) or **Player** (▶).
3. Press the **MENU** button.
 - The menu list will appear.
4. Move the **Joystick** (▲ / ▼) up or down to select "**System**", then press the **Joystick** or move the **Joystick** (▶) to the right.
5. Move the **Joystick** (▲ / ▼) up or down to select "**Clock Set**", then press the **Joystick**.
 - The year will be highlighted first.
6. Move the **Joystick** (▲ / ▼) up or down to set the current year, then press the **Joystick**.
 - The month will be highlighted.
7. You can set the month, day, hour and minute following the same procedure after setting the year.
8. Press the **Joystick** after setting the minutes.
 - A message "**Complete !**" is displayed.
9. To exit, press the **MENU** button.



- You can set the year up to 2037.

Turning the date and time display on/off

To switch the date and time display on or off, access the menu and change the date/time display mode. ➡page 32












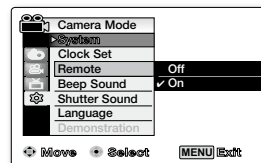
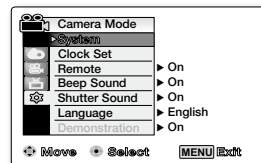
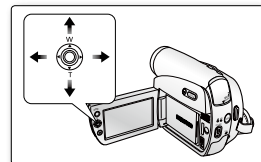
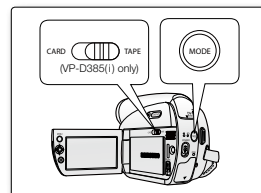
Display illustrations in this manual



- OSD illustrations of VP-D385(i) are used in this manual.
- Some of the OSD items shown in this manual may differ slightly from the actual items on your camcorder.

SETTING THE WIRELESS REMOTE CONTROL ACCEPTANCE (REMOTE) (VP-D382(i)/D382H/D385(i) only)

- The remote function works in **Camera** / **Player** / **M.Cam** / **M.Player** modes.
→ page 18
- The remote function allows you to enable or disable the remote control for use with the camcorder.

- Set the **Select** switch to **CARD** or **TAPE**. (VP-D385(i) only)
- Press the **MODE** button to set **Camera** () or **Player** ().
- Press the **MENU** button.
 - The menu list will appear.
- Move the **Joystick** ( / ) up or down to select "**System**", then press the **Joystick** or move the **Joystick** () to the right.
- Move the **Joystick** ( / ) up or down to select "**Remote**", then press the **Joystick**.
- Move the **Joystick** ( / ) up or down to select "**On**" or "**Off**", then press the **Joystick**.
- To exit, press the **MENU** button.




 If you set the "**Remote**" to "**Off**" in the menu and try to use it, the remote control indicator () will blink for 3 seconds on the LCD screen and then disappear.

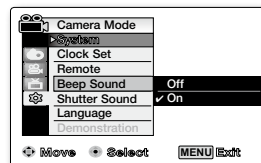
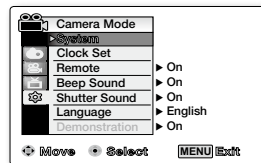
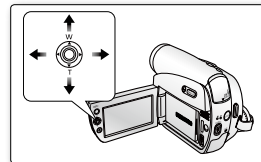
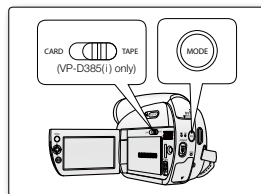
initial setting : system menu setting

SETTING THE BEEP SOUND (BEEP SOUND)

- The beep sound function works in **Camera / Player / M.Cam / M.Player** modes.
→ page 18
- You can turn the beep sound on or off, when on, each press of a button sounds a beep.



1. Set the **Select** switch to **CARD** or **TAPE**. (VP-D385(i) only)
2. Press the **MODE** button to set **Camera** (📷) or **Player** (▶).
3. Press the **MENU** button.
 - The menu list will appear.
4. Move the **Joystick** (▲ / ▼) up or down to select "**System**", then press the **Joystick** or move the **Joystick** (▶) to the right.
5. Move the **Joystick** (▲ / ▼) up or down to select "**Beep Sound**", then press the **Joystick**.
6. Move the **Joystick** (▲ / ▼) up or down to select "**On**" or "**Off**", then press the **Joystick**.
7. To exit, press the **MENU** button.

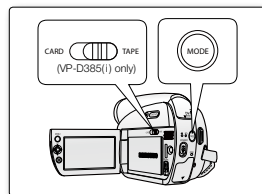
 When beep sound is set to off, the power on/off sound is off.










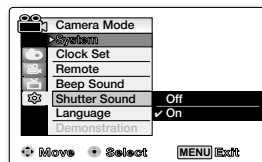
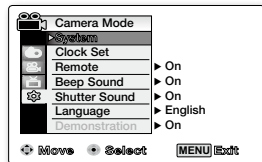
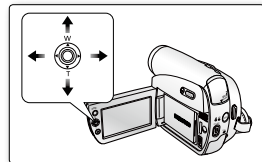
SETTING THE SHUTTER SOUND (SHUTTER SOUND)

- The shutter sound function works in **Camera** / **Player** / **M.Cam** modes. ➡ page 18
- You can turn the shutter sound on or off, when on, with each press of the **PHOTO** button, the shutter will sound.

1. If you press the **MODE** button to set it to **Camera** (), set the **Select** switch to either **CARD** or **TAPE**.
If you press the **MODE** button to set it to **Player** (), set the **Select** switch to **TAPE**.



2. Press the **MENU** button.
 - The menu list will appear.
3. Move the **Joystick** ( / ) up or down to select "**System**", then press the **Joystick** or move the **Joystick** () to the right.
4. Move the **Joystick** ( / ) up or down to select "**Shutter Sound**", then press the **Joystick**.
5. Move the **Joystick** ( / ) up or down to select "**On**" or "**Off**", then press the **Joystick**.
6. To exit, press the **MENU** button.




initial setting : system menu setting

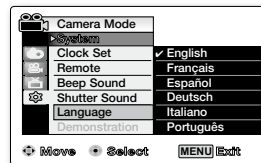
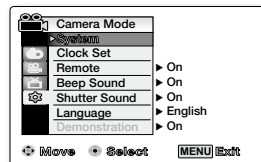
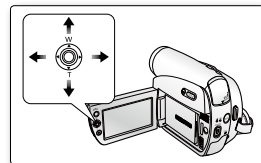
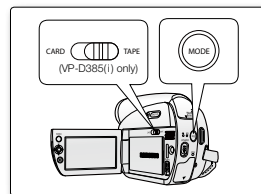
SELECTING THE OSD LANGUAGE (LANGUAGE)

- The Language function works in **Camera** / **Player** / **M.Cam** / **M.Player** modes.
➡ page 18
- You can select the desired language to display the menu screen and the messages.

1. Set the **Select** switch to **CARD** or **TAPE**. (VP-D385(i) only)
2. Press the **MODE** button to set **Camera** (📷) or **Player** (▶).
3. Press the **MENU** button.
 - The menu list will appear.
4. Move the **Joystick** (▲ / ▼) up or down to select "**System**", then press the **Joystick** or move the **Joystick** (▶) to the right.
5. Move the **Joystick** (▲ / ▼) up or down to select "**Language**", then press the **Joystick**.
 - The available language options are listed.
 - English / Français / Español / Deutsch / Italiano / Português / Polski / Nederlands / Magyar / Svenska / 中文 / ไทย / العربية / Iran / Русский / Українська / 한국어 / Suomi / Türkçe / Norwegian / Danish / Czech / Slovakia
6. Move the **Joystick** (▲ / ▼) up or down to select the desired OSD language, then press the **Joystick**.
 - The OSD language is refreshed in the selected language.

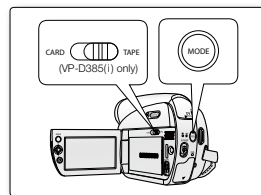
7. To exit, press the **MENU** button.

 Language options may be changed without prior notice.

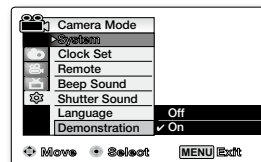
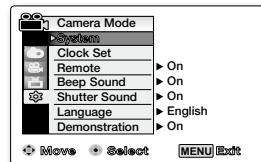


VIEWING THE DEMONSTRATION (DEMONSTRATION)

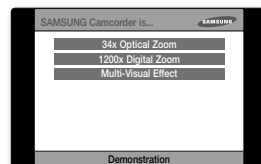
- Demonstration automatically shows you the major functions that are included with your camcorder so that you may use them more easily.
- The demonstration function may only be used in the **Camera** mode without a tape inserted in the camcorder. ➡page 18
- Before you begin: Make sure that there is no tape inserted in the camcorder. ➡page 34
- The demonstration operates repeatedly until the demonstration mode is switched off.



1. Set the **Select** switch to **TAPE**. (VP-D385(i) only)
2. Press the **MODE** button to set **Camera** ().
3. Press the **MENU** button.
 - The menu list will appear.
4. Move the **Joystick** (/) up or down to select "**System**", then press the **Joystick** or move the **Joystick** () to the right.
5. Move the **Joystick** (/) up or down to select "**Demonstration**", then press the **Joystick**.
6. Move the **Joystick** (/) up or down to select "**On**", then press the **Joystick**.
7. Press the **MENU** button.
 - The demonstration will begin.
8. To quit the demonstration, press the **MENU** button.



- The demonstration function is automatically activated when the camcorder is left idle for more than 10 minutes after switching to the **Camera** mode (if no tape is inserted in the camcorder).
- If you press other buttons (**MENU**, **Joystick**, **EASY.Q...**) during the demonstration mode, the demonstration stops temporarily and resumes 10 minutes later if you do not operate any other functions.
- The demonstration mode displays in 4:3 aspect ratio on the LCD screen.

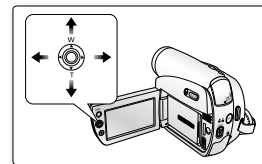
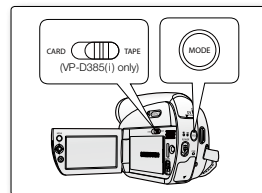


initial setting : display menu setting

SETTING THE GUIDELINE (GUIDELINE)

- Adjusting the LCD screen works in **Camera / M.Cam** modes. ➡page 18
- Guideline displays a certain pattern on the LCD screen so that you can easily set the image composition when recording movie or photo images.
- The miniDV camcorder provides 3 types of guidelines.

- Set the **Select** switch to **CARD** or **TAPE**. (VP-D385(i) only)
- Press the **MODE** button to set **Camera** ().
- Press the **MENU** button.
 - The menu list will appear.
- Move the **Joystick** (/) up or down to select "**Display**", then press the **Joystick** or move the **Joystick** () to the right.
- Move the **Joystick** (/) up or down to select "**Guideline**", then press the **Joystick**.
- Move the **Joystick** (/) up or down to select the guideline display type, then press the **Joystick**.

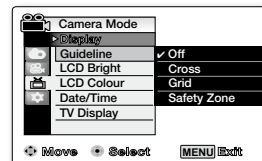
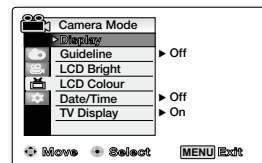


Settings	Contents	On-screen display
Off	Disables the function.	None
Cross	Records the subject placed in the centre as the most general recording composition.	
Grid	Records the subject on the horizontal or vertical composition or with close-up.	
Safety Zone	Records the subject within safety zone which prevents from being cut when editing in 4:3 for left and right and 2.35:1 for top and bottom. Set " Safety Zone " when you want to have various subjects in one scene with the proper size.	

- To exit, press the **MENU** button.



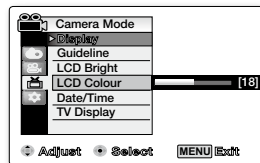
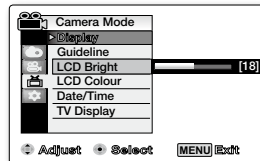
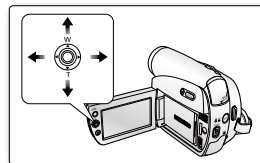
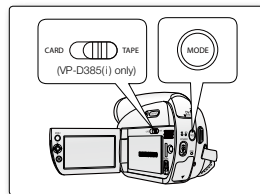
- Positioning the subject at the cross point of the guideline makes a balanced composition.
- Guideline cannot be recorded on the images being recorded.



ADJUSTING THE LCD SCREEN (LCD BRIGHT/LCD COLOUR)

- Adjusting the LCD screen works in **Camera / Player / M.Cam / M.Player** modes.
 - ➡ page 18
- Your camcorder is equipped with a 2.7 inch wide colour Liquid Crystal Display (LCD) screen, which enables you to view what you are recording or playing back directly.
- Depending on the conditions under which you are using the camcorder (indoors or outdoors for example), you can adjust:
 - **"LCD Bright"**
 - **"LCD Colour"**

- Set the **Select** switch to **CARD** or **TAPE**. (VP-D385(i) only)
- Press the **MODE** button to set **Camera** (📹) or **Player** (▶).
- Press the **MENU** button.
 - The menu list will appear.
- Move the **Joystick** (▲ / ▼) up or down to select **"Display"**, then press the **Joystick** or move the **Joystick** (▶) to the right.
- Move the **Joystick** (▲ / ▼) up or down to select the item you want to adjust **"LCD Bright"** or **"LCD Colour"**, then press the **Joystick**.
- Move the **Joystick** (▲ / ▼) up or down to adjust the value of the selected item **"LCD Bright"** or **"LCD Colour"**, then press the **Joystick**.
 - You can set values for **"LCD Bright"** and **"LCD Colour"** between **"0"** to **"35"**.
- To exit, press the **MENU** button.
 - Adjusting the LCD screen does not affect the brightness and colour of the image to be recorded.



initial setting: display menu setting

DISPLAYING THE DATE / TIME (DATE / TIME)

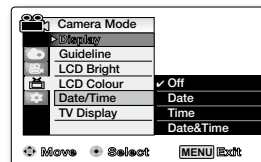
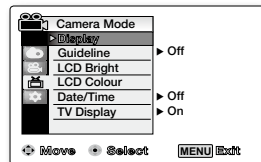
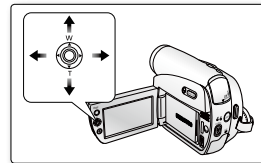
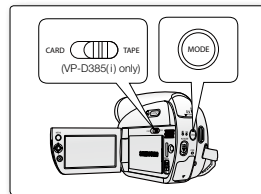
- The date/time function works in **Camera / Player / M.Cam / M.Player** modes.
→ page 18
 - The date and time are automatically recorded on a special data area of the tape.
1. Set the **Select** switch to **CARD** or **TAPE**. (VP-D385(i) only)
 2. Press the **MODE** button to set **Camera** (📷) or **Player** (▶).
 3. Press the **MENU** button.
 - The menu list will appear.
 4. Move the **Joystick** (▲ / ▼) up or down to select **"Display"**, then press the **Joystick** or move the **Joystick** (▶) to the right.
 5. Move the **Joystick** (▲ / ▼) up or down to select **"Date/Time"**, then press the **Joystick**.
 6. Move the **Joystick** (▲ / ▼) up or down to select the date/time display type, then press the **Joystick**.
 - Date/Time display type: **"Off"**, **"Date"**, **"Time"**, **"Date&Time"**.
 7. To exit, press the **MENU** button.



• On charging the built-in rechargeable battery

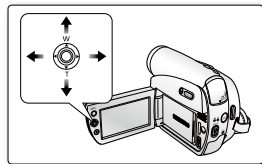
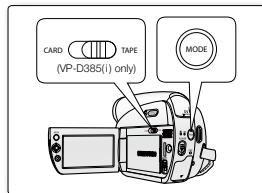
Your camcorder has a built-in rechargeable battery to retain the date, time, and other settings even when the power is off. The built-in rechargeable battery is always charged while your camcorder is connected to the wall outlet via the AC power adaptor or while the battery pack is attached. The rechargeable battery will be fully discharged in about 3 months if you do not use your camcorder at all. Use your camcorder after charging the built-in rechargeable battery. If the built-in rechargeable battery is not charged, any input data will not be backed up and the date/time appears on the screen as **"00:00 1.JAN.2008"** (when **"Date/Time"** display is set to **"On"**).

- The date/time will read **"00:00 1.JAN.2008"** in the following conditions:
 - When the built-in rechargeable battery becomes weak or dead.
 - If the movie or photo recording was made before setting the date/time in the miniDV camcorder.
- The same functional button exists on the remote control as well. Press it once to display the date **"1.JAN.2008"**, press it twice to display the time and press it again to display both time and date on the screen.

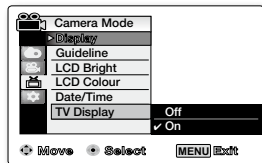
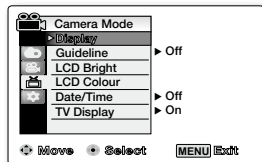


SETTING THE TV DISPLAY (TV DISPLAY)

- The TV Display function works in **Camera** / **Player** / **M.Cam** / **M.Player** modes.
➡page 18
- You can select the output path of the OSD (On Screen Display).
 - **"Off"**: The OSD appears in the LCD screen only.
 - **"On"**: The OSD appears in the LCD screen and TV.
(Connecting to a TV ➡pages 69~70)
 - Use the **Display([])** button to turn the OSD on/off on the LCD screen and TV. ➡page 21



1. Set the **Select** switch to **CARD** or **TAPE**. (VP-D385(i) only)
2. Press the **MODE** button to set **Camera** () or **Player** ().
3. Press the **MENU** button.
 - The menu list will appear.
4. Move the **Joystick** (/) up or down to select **"Display"**, then press the **Joystick** or move the **Joystick** () to the right.
5. Move the **Joystick** (/) up or down to select **"TV Display"**, then press the **Joystick**.
6. To activate TV Display function, move the **Joystick** (/) up or down to select **"On"** or **"Off"**, then press the **Joystick**.
7. To exit, press the **MENU** button.



basic recording

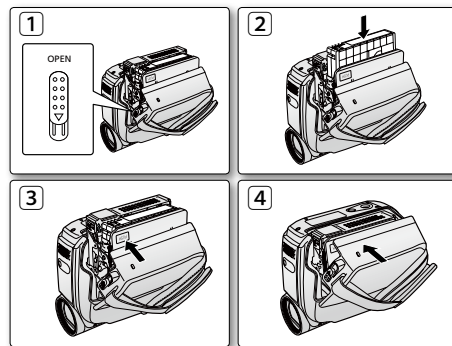
INSERTING / EJECTING A CASSETTE

- When inserting a tape or closing the cassette compartment, do not apply excessive force, as it may cause a malfunction.
- Do not use any tape other than DV cassettes.

- Connect a power source and slide the **OPEN** switch.
 - The cassette compartment cover opens automatically.
- Inserting a Cassette:** Insert a tape into the cassette compartment with the tape window facing outward and the protection tab toward the top.

Ejecting a Cassette: Remove the cassette tape, which is automatically ejected by pulling the cassette out.

- Press the area marked **PUSH** on the cassette compartment cover until it clicks into place.
 - The cassette is loaded automatically.
- Close the cassette compartment cover.



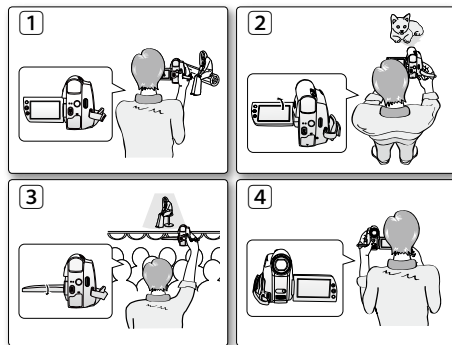
VARIOUS RECORDING TECHNIQUES

In some situations different recording techniques may be required.

- General recording.
- Downward recording.
 - Making a recording with a top view of the LCD screen.
- Upward recording.
 - Making a recording viewing the LCD screen from below.
- Self recording.
 - Making a recording viewing the LCD screen from the front.



Please rotate the LCD screen carefully as excessive rotation may cause damage to the inside of the hinge that connects the LCD screen to the camcorder.

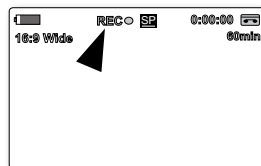
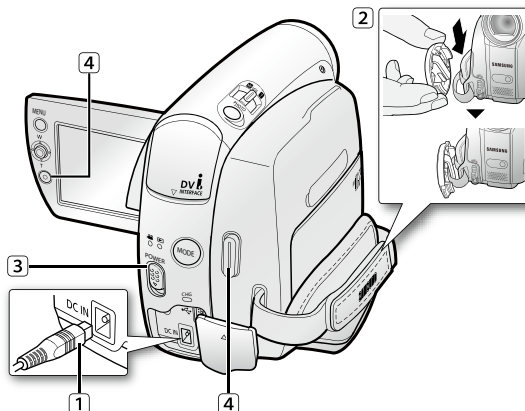


MAKING YOUR FIRST RECORDING

1. Connect a power source to the camcorder. ➡ page 17
(A battery pack or a AC power adapter) ➡ pages 14,17
 - Insert a cassette. ➡ page 34
 - If you want to record on a memory card, insert the memory card. (VP-D385(i) only) ➡ page 74
2. Remove the lens cover.
3. Slide the **POWER** switch downwards to turn on the power.
 - Open the LCD screen.
 - Set the **Select** switch to **CARD** or **TAPE**. (VP-D385(i) only)
 - Press the **MODE** button to set **Camera** ().
- Make sure that **STBY** is displayed.
 - If the write protection tab of the cassette is open (set to save), **STOP** and "**Protection!**" will be displayed. Release the write protection tab to record.
 - Make sure the image you want to record appears on the LCD screen.
 - Make sure the battery level indicates that there is enough remaining power for your expected recording time.
 - You can select a record mode of your choice. ➡ page 44
4. To start recording, press the **Recording start/stop** button.
 - "**REC**" is displayed on the LCD screen.

To stop recording, press the **Recording start/stop** button again.



 - "**STBY**" is displayed on the LCD screen.



- Eject the battery pack when you finish the recordings to prevent unnecessary battery power consumption.
- The miniDV camcorder provides two **Recording start/stop** buttons. One is on the rear side of the camcorder and the other one is on the LCD panel. Select the **Recording start/stop** button according to the use.


basic recording

RECORDING WITH EASE FOR BEGINNERS (EASY Q MODE)

- The EASY Q function works only in **Camera** mode. ➡page 18
 - With the EASY Q function, most of the miniDV camcorder settings are automatically adjusted, which frees you from making detailed adjustments.
1. Set the **Select** switch to **TAPE**. (VP-D385(i) only)
 2. Press the **MODE** button to set **Camera** ().
 3. Press the **EASY Q** button.
 - When you press the **EASY Q** button, most functions turn off and the following functions are set to "**Auto**" (DIS, Focus, White Balance, Exposure, Program AE, Shutter)
 - The EASY Q and DIS() indicators appear on the screen at the same time.
 4. Press the **Recording start/stop** button to start recording.
 - Recording will begin using the basic automatic settings.

To cancel the EASY Q mode

Press the **EASY Q** button again.

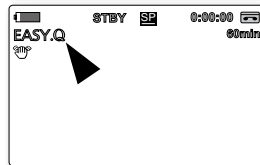
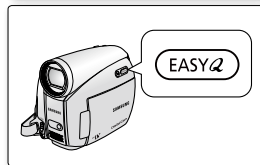
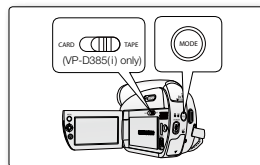
- The EASY Q and DIS() indicators disappear from the screen.
- Almost all the settings will return to the settings that were set prior to activating EASY Q mode.
- You cannot cancel the EASY.Q mode during recording.



Buttons unavailable during EASY.Q operation

The following buttons and control are unavailable because the items are automatically set. The "**Release the Easy.Q!**" messages may appear if unavailable operations are attempted.

- **MENU** button
- Taking a photo image using the **PHOTO** button while EASY.Q is set releases the DIS function.



ZOOMING IN AND OUT

- The zoom function works in both **Camera** and **M.Cam** modes. ➔page 18
- Use the zoom function for close-up or wide-angle recording.
- This miniDV camcorder allows you to record using optical 34x power zoom and 1200x digital zoom.

To zoom in

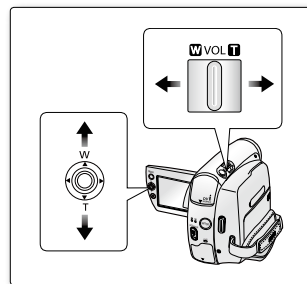
Slide the **Zoom** lever towards **T** (telephoto).

(Or move down the **Joystick (T)** on the LCD panel.)

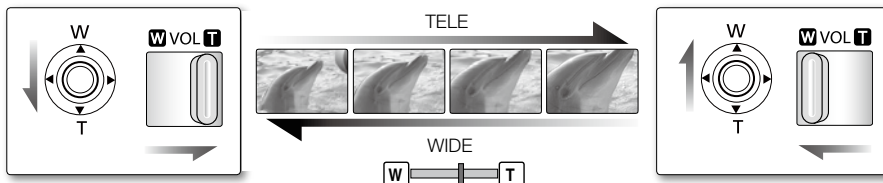
To zoom out

Slide the **Zoom** lever towards **W** (wide-angle).

(Or move up the **Joystick (W)** on the LCD panel.)








- The farther you slide the Zoom lever, the quicker the zoom action.
- Be sure to keep your finger on the Zoom lever. If you move your finger off the Zoom lever, the operation sound of the Zoom lever may be also recorded.
- Focussing may become unstable during zooming. In this case, set the zoom before recording and lock the focus by using the manual focus, then zoom in or out during recording. ➔page 42
- The minimum possible distance between camcorder and subject while maintaining sharp focus is about 1 cm (about 0.39 inch) for wide angle and 50 cm (about 19.68 inch) for telephoto.
- Optical zoom preserves the movie quality, but during digital zoom the quality of image may suffer.
- When you zoom into a subject close to the lens, the miniDV camcorder may automatically zoom out depending on the distance to the subject. In this case, set "**Macro**" to "**On**." ➔page 54



basic recording

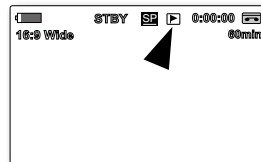
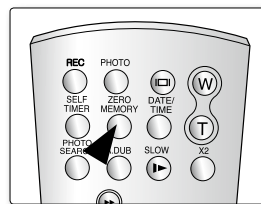
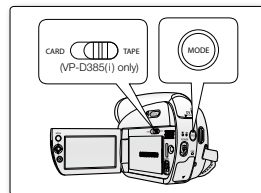
SEARCHING QUICKLY FOR A DESIRED SCENE (SETTING THE ZERO MEMORY) (VP-D382(i)/D382H/D385(i) only)

- The zero memory function works in both **Camera** and **Player** modes. ➡ page 18
- You can mark a point on a tape that you want to return to following playback.

1. Set the **Select** switch to **TAPE**. (VP-D385(i) only)
2. Press the **MODE** button to set **Camera** () or **Player** ().
3. Press the **ZERO MEMORY** button on the remote control before the recording or during playback at the point where you wish to return.
 - The time code is changed to a tape counter that is set to zero memory with the zero memory ( 0:00:00) indicator displayed.
 - If you want to cancel the zero memory function, press the **ZERO MEMORY** button again.
4. Finding the zero position.
 - When you have finished playback, fast forward or rewind the tape in stop mode. The tape stops automatically when it reaches the zero position.
 - When you have finished recording, press the **MODE** button to set **Player** () and press the **◀(REW)** button. The tape stops automatically when it reaches the zero position.
5. The tape counter with the zero memory () indicator disappears from the display and the tape counter is changed to the time code.





- In the following situations, zero memory mode may be cancelled automatically:
 - At the end of the section marked with the zero memory function.
 - When the tape is ejected.
 - When you remove the battery pack or power supply.
- The zero memory may not function correctly where there is a break between recordings on the tape.
- The zero memory function is available only using the remote control.



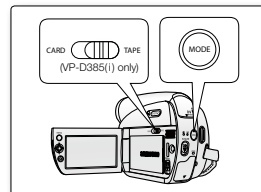
SELF RECORD USING THE REMOTE CONTROL (SETTING THE SELF TIMER) (VP-D382(i)/D382H/D385(i) only)

- The SELF TIMER function works only in **Camera** mode. ➔ page 18
- When you use the SELF TIMER function on the remote control, the recording begins automatically in 10 seconds.

1. Set the **Select** switch to **TAPE**. (VP-D385(i) only)
2. Press the **MODE** button to set **Camera** ().
3. Press the **SELF TIMER** button.
 - The () indicator is displayed.
4. To record movie images, press the **Recording start/stop** button.
 - Self timer starts counting down from 10. At this moment, recording indicator blinks with a beep sound.
 - At the last second of the countdown, recording starts automatically.
 - If you want to cancel the self timer function before recording, press the **SELF TIMER** button again.



- Do not obstruct the remote control sensor by putting obstacles between the remote control and miniDV camcorder.
- The remote control maximum range is 4 to 5m (13 to 17 ft).
- The effective remote control angle is up to 30 degrees left /right from the centre line.
- Using a tripod (not supplied) is recommended during self record.



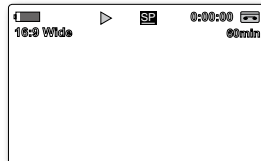
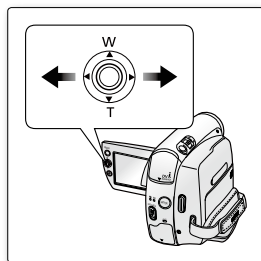
basic recording

REVIEWING AND SEARCHING A RECORDING

- The Rec Search function works only in **Camera** mode. ➔page 18
- Used to review previously recorded images or to find a point to record a new image in the STBY mode.

Record Search (Joystick)

1. Set the **Select** switch to **TAPE**. (VP-D385(i) only)
2. Press the **MODE** button to set **Camera** (📷).
3. To start recording, press the **Recording start/stop** button.
4. Set to STBY mode by pressing **Recording start/stop** button again.
5. **To perform the backward search:**
 - Move the **Joystick** (◀) to the left.
 - While you press and hold the **Joystick** (◀), the selected images will be played in reverse order. Press and release the **Joystick** (◀) to play the images in reverse order for 3 seconds before resetting the play order to normal.
- To perform the normal search:**
 - Move the **Joystick** (▶) to the right.
 - While you press and hold the **Joystick** (▶), the selected images will be played in normal order. To resume recording when your record search is done, press the **Recording start/stop** button.



- Mosaic shaped distortion may appear on the screen while in Record Search mode.
- Pressing **Recording start/stop** button after rec search will overwrite the images recorded after that point.

USING THE FADE ON AND OFF

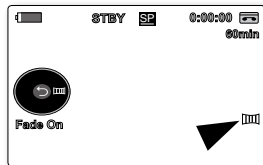
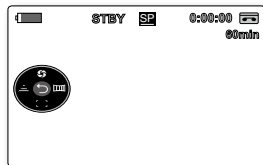
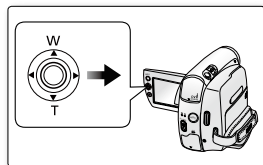
- The Fade function works only in **Camera** mode. ➡ page 18
- You can give your recording a professional look by using special effects such as fade in at the beginning of a sequence or fade out at the end of a sequence.

To Start Recording

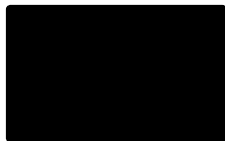
1. Set the **Select** switch to **TAPE**. (VP-D385(i) only)
2. Press the **MODE** button to set **Camera** ().
3. Before recording, press the **Joystick** and then move the **Joystick** (▶) to the right.
 - Move the **Joystick** (▶) to the right fade function to select "**Fade On**".
4. Press the **Recording start/stop** button and at the same time release the Fade function.
 - Recording starts and the picture and sound gradually appear. (Fade In)

To Stop Recording

5. When you want to stop recording with fade out, press the **Joystick**, then move the **Joystick** (▶) to the right.
 - Move the **Joystick** (▶) to the right fade function to select "**Fade On**".
6. Press the **Recording start/stop** button to stop recording.
 - The picture and sound gradually disappear. (Fade Out)



Fade In (Approx. 4 seconds)



Fade Out (Approx. 4 seconds)

basic recording

AUTO FOCUS / MANUAL FOCUS

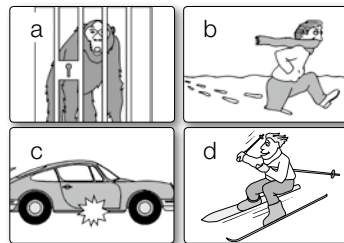
- The Auto Focus/Manual Focus function works in both **Camera** and **M.Cam** modes. ➔page 18
- In most situations, it is better to use the automatic focus feature, as it enables you to concentrate on the creative side of your recording.
- Manual focussing may be necessary under certain conditions that make automatic focussing difficult or unreliable.
- Adjust the Auto Focus / Manual Focus functions only by using the Joystick.

Auto Focus

- If you are inexperienced in the use of camcorders, we recommend that you make use of auto focus.

Manual Focus

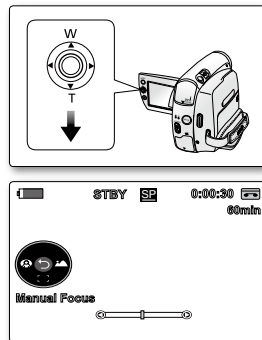
- In the following situations, you may obtain better results by adjusting the focus manually.
- a. A picture containing several objects, some close to the camcorder, others further away.
 - b. A person enveloped in fog or surrounded by snow.
 - c. Very shiny or glossy surfaces like a car.
 - d. People or objects moving constantly or quickly like an athlete or a crowd.



Setting the Focus


1. Set the **Select** switch to **CARD** or **TAPE**. (VP-D385(i) only)
2. Press the **MODE** button to set **Camera** (📷).
3. Press the **Joystick**.
 - Quick menu will appear.
4. Move down the **Joystick** (▼) to select the "Manual Focus" mode.
 - You can toggle between "Auto Focus" and "Manual Focus" by moving down the **Joystick** (▼).
 - Move the **Joystick** (◀ / ▶) left or right to select the desired manual focus value, then press the **Joystick**.
5. To exit, press the **Joystick**.
 - Manual focus indicator (MF) and the status bar will be displayed on the LCD screen.

 Manual focus is not available in the EASY.Q mode.









SETTING THE SHUTTER SPEED & EXPOSURE







- The Shutter Speed function works only in **Camera** mode. ➡page 18
- The Exposure function works in both **Camera** and **M.Cam** modes. ➡page 18
- Adjust the Shutter Speed and Exposure functions only by using the Joystick.

1. Set the **Select** switch to **CARD** or **TAPE**. (VP-D385(i) only)
2. Press the **MODE** button to set **Camera** ().
3. Press the **Joystick**.
 - Quick menu will appear.

Setting the Shutter Speed

4. Move the **Joystick** () to the left to select "**Auto Shutter** ()" mode.
 - In Auto mode, move up the **Joystick** () to switch the mode to manual.
 - You can also toggle between Auto Shutter and Manual Shutter by moving up the **Joystick** ().
5. Move the **Joystick** ( / ) left or right to select the desired shutter speed value, then press the **Joystick**.
 - Shutter speed can be set to "**1/50**", "**1/120**", "**1/250**", "**1/500**", "**1/1000**", "**1/2000**", "**1/4000**" or "**1/10000**" of a second.

Setting the Exposure

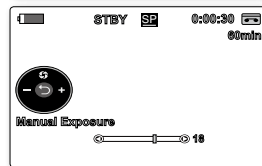
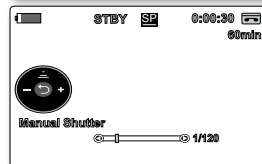
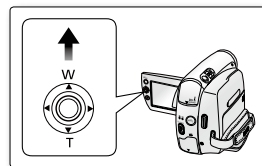
4. Move up the **Joystick** () to select "**Auto Exposure** ()" mode.
 - In Auto mode, move up the **Joystick** () to switch the mode to manual.
 - You can also toggle between Auto Exposure and Manual Exposure by moving up the **Joystick** ().
5. Move the **Joystick** ( / ) left or right to select the desired exposure value, then press the **Joystick**.
 - Exposure value can be set between "**00**" to "**29**".
6. To exit, press the **Joystick**.
 - Selected settings are displayed.

Recommended Shutter Speeds when Recording

- Outdoor sports such as golf or tennis: "**1/2000**" or "**1/4000**"
- Moving cars or trains or other rapidly moving vehicles such as roller coasters: "**1/1000**", "**1/500**" or "**1/250**"
- Indoor sports such as basketball: "**1/120**"









- If you manually change the shutter speed and the exposure value when program AE option is selected, manual changes are applied first.
- The image may not seem as smooth when a high shutter speed is set.
- The camcorder returns to the auto shutter and auto exposure settings when you change to the EASY.Q mode.
- When recording with a shutter speed of 1/1000 or higher, make sure the sun is not shining into the lens.



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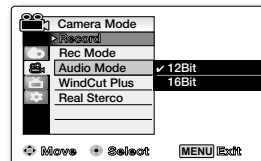
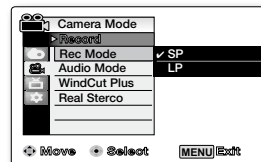
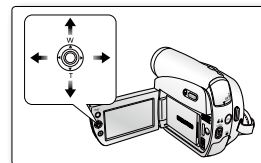
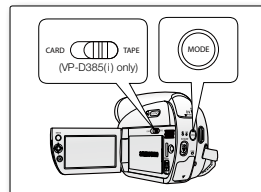
SELECTING THE RECORD MODE & AUDIO MODE (Rec Mode & Audio Mode)

- The Record mode function works in both **Camera** and **Player** modes. ➡page 18
- This camcorder records and plays back in SP (standard play) mode and in LP (long play) mode.
 - **"SP"** : This mode allows 60 minutes of recording time with a DVM60 tape.
 - **"LP"** : This mode allows 90 minutes of recording time with a DVM60 tape.
- The Audio mode function works in both **Camera** and **Player** modes. ➡page 18
- This camcorder records sound in two ways. (**12Bit, 16Bit**)
 - **"12Bit"** : You can record two 12Bit stereo sound tracks. The original stereo sound can be recorded onto the main (Sound1) track. Additional stereo sound can be dubbed onto the sub (Sound2) track.
 - **"16Bit"** : You can record one high quality stereo soundtrack using 16Bit recording mode. Audio dubbing is not possible when using this mode.

1. Set the **Select** switch to **TAPE**. (VP-D385(i) only)
2. Press the **MODE** button to set **Camera** () or **Player** ().
3. Press the **MENU** button.
 - The menu list will appear
4. Move the **Joystick** ( / ) up or down to select **"Record"**, then press the **Joystick** or move the **Joystick** () to the right.
5. Move the **Joystick** ( / ) up or down to select **"Rec Mode"** or **"Audio Mode"**, then press the **Joystick**.
6. Move the **Joystick** ( / ) up or down to select the desired record mode or audio mode, then press the **Joystick**.
 - Rec mode can be set to **"SP"** or **"LP"**.
 - Audio mode can be set to **"12Bit"** or **"16Bit"**.
7. To exit, press the **MENU** button.
 - The selected indicator is displayed.
 - When **"12Bit"** is selected, no indicator is displayed.



- We recommend that you use this camcorder to play back any tapes recorded on this camcorder. Playing back a tape recorded in other equipment may produce mosaic shaped distortion.
- When you record a tape in SP and LP modes, or LP mode only, the playback picture may be distorted or the time code may not be written properly if there is a gap between scenes.
- Record using SP mode for best picture and sound quality.



To edit audio on your camcorder, you must set 12Bit for the Audio mode and SP for the Rec mode.

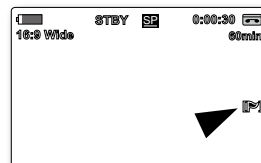
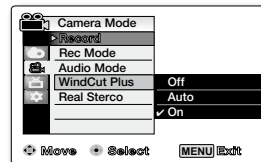
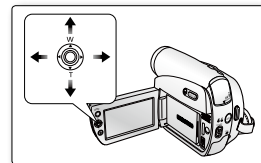
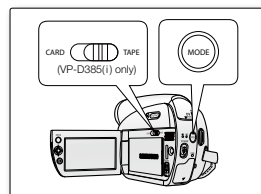
CUTTING OFF WIND NOISE (WINDCUT PLUS)

- The windcut plus function works in both **Camera** and **Player** (Audio dubbing) modes. ➡ page 18
- Use the windcut plus when recording in windy places such as the beach or near buildings.
- The windcut plus function minimises wind or other noises while recording.
 - When the windcut plus is on, some low pitched tones are eliminated along with the sound of the wind.

1. Set the **Select** switch to **TAPE**. (VP-D385(i) only)
2. Press the **MODE** button to set **Camera** (📷) or **Player** (▶).
3. Press the **MENU** button.
 - The menu list will appear
4. Move the **Joystick** (▲ / ▼) up or down to select "**Record**", then press the **Joystick** or move the **Joystick** (▶) to the right.
5. Move the **Joystick** (▲ / ▼) up or down to select "**WindCut Plus**", then press the **Joystick**.
6. To activate the windcut plus function, move the **Joystick** (▲ / ▼) up or down to select the windcut plus type, then press the **Joystick**.
 - "**Off**": Disables the function
 - "**Auto**": Minimises the wind noise while preserving voices.
 - "**On**": Removes the low pitched wind noise.
7. To exit, press the **MENU** button.
 - WindCut Plus ("**On**" (🔊) or "**Auto**" (🔊)) indicator is displayed.



Make sure windcut plus is set to off when you want the microphone to be as sensitive as possible.

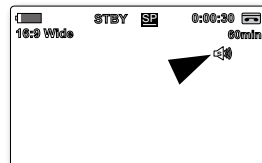
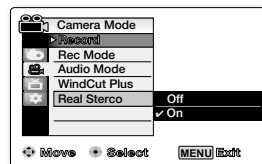
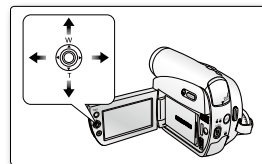
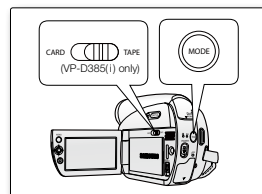


advanced recording

SELECTING THE REAL STEREO FUNCTION (REAL STEREO)

- The Real Stereo function works only in **Camera** mode. ➡ page 18
- Real stereo enhances the left and right input signals when using the internal microphone.

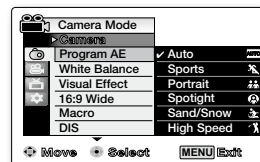
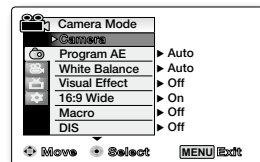
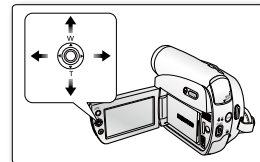
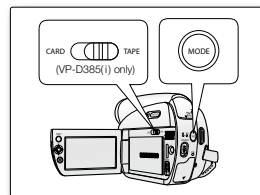
1. Set the **Select** switch to **TAPE**. (VP-D385(i) only)
2. Press the **MODE** button to set **Camera** (📹).
3. Press the **MENU** button.
 - The menu list will appear
4. Move the **Joystick** (▲ / ▼) up or down to select "**Record**", then press the **Joystick** or move the **Joystick** (▶) to the right.
5. Move the **Joystick** (▲ / ▼) up or down to select "**Real Stereo**", then press the **Joystick**.
6. To activate the Real Stereo function, move the **Joystick** (▲ / ▼) up or down to select "**On**", then press the **Joystick**.
 - If you do not want to use the Real Stereo function, set the "**Real Stereo**" menu to "**Off**".
7. To exit, press the **MENU** button.
 - Real Stereo (🔊) indicator is displayed.



SETTING THE PROGRAM AE (PROGRAM AE)







- The Program AE function works only in **Camera** mode. ➔page 18
- The Program AE mode allows you to adjust shutter speeds and apertures to suit different recording conditions.
- They give you creative control over the depth of field.

1. Set the **Select** switch to **TAPE**. (VP-D385(i) only)
2. Press the **MODE** button to set **Camera** (📷).
3. Press the **MENU** button.
 - The menu list will appear
4. Move the **Joystick** (▲ / ▼) up or down to select "**Camera**", then press the **Joystick** or move the **Joystick** (▶) to the right.
5. Move the **Joystick** (▲ / ▼) up or down to select "**Program AE**", then press the **Joystick**.
 - The available options are listed.
6. Move the **Joystick** (▲ / ▼) up or down to select the desired program AE option, then press the **Joystick**.
7. To exit, press the **MENU** button.
 - The indicator of the selected mode is displayed.
 - When the "**Auto**" mode is selected, no indicator is displayed.



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SETTING THE PROGRAM AE (PROGRAM AE)









Settings	Contents	On-screen display
Auto	<ul style="list-style-type: none">- Auto balance between the subject and the background.- To be used in normal conditions.- The shutter speed is automatically adjusted from 1/50 to 1/250 per second, depending on the scene.	
Sports	<ul style="list-style-type: none">- Reduces blurring when recording rapidly moving subjects such as in golf or tennis games. If the Sports mode is used under a fluorescent light, the image may flicker. In this case, use the Auto mode for recording.	
Portrait	<ul style="list-style-type: none">- Creates a shallow depth of field so that the person or subject appears against a softened background.- The portrait mode is most effective when used outdoors.- The shutter speed is automatically adjusted from 1/50 to 1/1000 per second.	
Spotlight	<ul style="list-style-type: none">- Prevents overexposure of subject's face, etc. when strong light strikes the subject, as in a wedding or on stage.	
Sand/Snow	<ul style="list-style-type: none">- Prevents underexposure of subject's face, etc. in a place where reflection of light is intense, such as at the beach in midsummer or on a ski slope.	
High Speed	<ul style="list-style-type: none">- For recording fast-moving subjects such as players in golf or tennis games.	

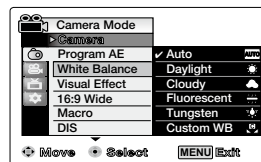
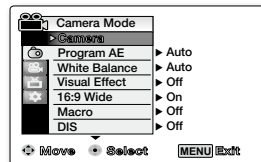
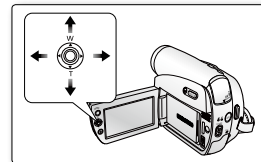
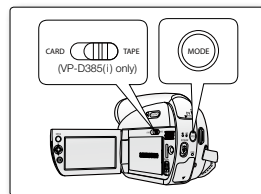


- The Program AE function will not operate in EASY.Q mode.
- The Program AE cannot be set when the Shutter Speed or the Exposure is set to manual.







SETTING THE WHITE BALANCE (WHITE BALANCE)

- The White Balance function works in both **Camera** and **M.Cam** modes. ➔page 18
- The White Balance is a recording function that preserves the unique image colour of the object in any recording condition.
- You may select the appropriate White Balance mode to obtain good quality image colour.

1. Set the **Select** switch to **CARD** or **TAPE**. (VP-D385(i) only)
2. Press the **MODE** button to set **Camera** ().
3. Press the **MENU** button.
 - The menu list will appear
4. Move the **Joystick** ( / ) up or down to select "**Camera**", then press the **Joystick** or move the **Joystick** () to the right.
5. Move the **Joystick** ( / ) up or down to select "**White Balance**", then press the **Joystick**.
 - The available options are listed.
6. Move the **Joystick** ( / ) up or down to select the desired white balance mode, then press the **Joystick**.
7. To exit, press the **MENU** button.
 - The indicator of the selected mode is displayed.
 - When the "**Auto**" mode is selected, no indicator is displayed.



advanced recording

Settings	Contents	On-screen display
Auto	This option is generally used to control the white balance automatically.	
Daylight	This controls the white balance according to the outdoor ambience, especially for close up and when the subject is of one dominant colour.	
Cloudy	This option is used when you make a recording in cloudy weather.	
Fluorescent	This option is used when you make a recording under white fluorescent lights.	
Tungsten	This option is used when the surroundings are less than 3200K of tungsten lights.	
Custom WB	You can manually adjust white balance to match the light source or situation	

Setting the white balance manually :

1. Select "Custom WB".

- The indicator () and the message **"Set white balance"** are displayed.

2. Frame a white object such as a piece of paper so that it fills the screen.

Use an object that is not transparent.

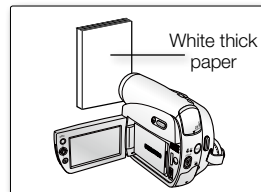
- If the object that fills the screen is not focussed, correct the focus using **"Manual Focus"** ➡ page 42

3. Press the Joystick.

- The white balance setting will be applied and indicator () is displayed.




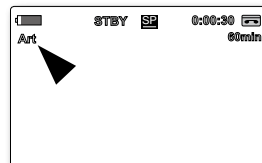
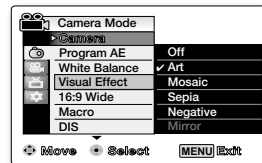
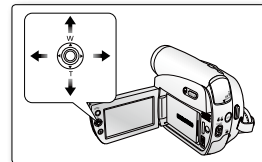
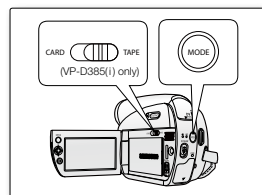
- The White Balance function will not operate in EASY.Q mode.
- It is recommended that you specify **"Digital Zoom"** to **"Off"** before setting white balance. ➡ page 57
- Reset the white balance if lighting conditions change.
- During normal outdoor recording, setting to Auto may provide better results.
- Pressing the **MENU** button while setting the Custom WB will cancel the Custom WB setting and sets the White Balance to **"Auto"**.



APPLYING VISUAL EFFECTS (VISUAL EFFECT)

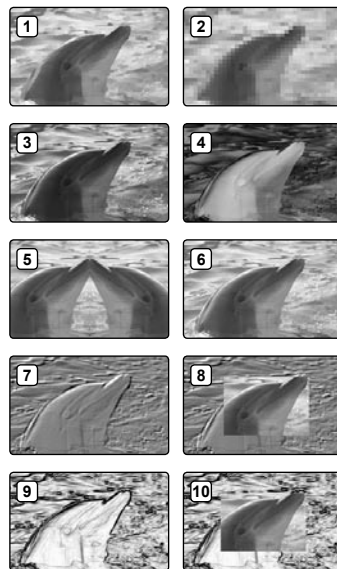
- The visual effect function works only in **Camera** mode. ➡page 18
- The visual effects enable you to give a creative look to your recording.
- Select the appropriate visual effect for the type of picture that you wish to record and the effect you wish to create. There are 10 visual effect modes.

1. Set the **Select** switch to **TAPE**. (VP-D385(i) only)
2. press the **MODE** button to set **Camera** ().
3. Press the **MENU** button.
 - The menu list will appear.
4. Move the **Joystick** (▲ / ▼) up or down to select "**Camera**", then press the **Joystick** or move the **Joystick** (▶) to the right.
5. Move the **Joystick** (▲ / ▼) up or down to select "**Visual Effect**", then press the **Joystick**.
 - The available options are listed.
6. Move the **Joystick** (▲ / ▼) up or down to select the desired visual effect option, then press the **Joystick**.
 - The display mode is set to the selected mode.
7. To exit, press the **MENU** button.



advanced recording


Settings	Contents
Off	Disables the function.
1 Art	This mode gives the images a coarse effect.
2 Mosaic	This mode gives the images a mosaic effect.
3 Sepia	This mode gives the images a reddish-brown pigment.
4 Negative	This mode reverses the colours, creating a negative image.
5 Mirror	This mode cuts the picture in half, using a mirror effect.
6 BLK&WHT	This mode changes the images to black and white.
7 Emboss1	This mode creates a 3D effect (embossing).
8 Emboss2	This mode creates a 3D effect (embossing) on surrounding area of an image.
9 Pastel1	This mode applies a pale pastel drawing effect to an image.
10 Pastel2	This mode applies a pale pastel drawing effect to surrounding area of an image.



- **"Mirror"** mode is not available in the **"16:9 Wide"** mode. Release the 16:9 Wide mode first to set Mirror mode. ➡ page 53
- **Visual Effect** modes are not available while **EASY.Q** is in use.
- The **"Mosaic"**, **"Mirror"**, **"Emboss2"**, **"Pastel1"** and **"Pastel2"** modes are not available while **DIS** or **C.Nite** is in use. (Once **"DIS"** or **"C.Nite"** is set, **"Mosaic"**, **"Mirror"**, **"Emboss2"**, **"Pastel1"** or **"Pastel2"** mode will be released.)
- **"Digital Zoom"** is not available in the **"Mosaic"**, **"Mirror"**, **"Emboss2"**, **"Pastel1"** or **"Pastel2"** mode.

SETTING THE 16:9 WIDE MODE (16:9 WIDE)

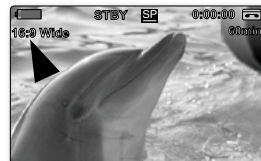
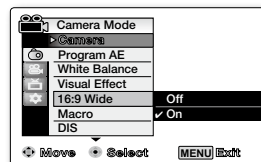
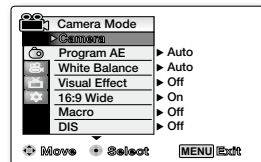
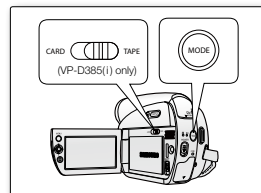
- The 16:9 wide function works only in **Camera** mode. ➡page 18
- Recordings in 16:9 wide will play back naturally only when the TV supports 16:9 aspect ratio.
- This product is set to 16:9 wide by the factory default.

1. Set the **Select** switch to **TAPE**. (VP-D385(i) only).
2. Press the **MODE** button to set **Camera** ().
3. Press the **MENU** button.
 - The menu list will appear.
4. Move the **Joystick** (▲ / ▼) up or down to select "**Camera**", then press the **Joystick** or move the **Joystick** (▶) to the right.
5. Move the **Joystick** (▲ / ▼) up or down to select "**16:9 Wide**", then press the **Joystick**.
6. To activate the 16:9 wide function, move the **Joystick** (▲ / ▼) up or down to select "**On**", then press the **Joystick**.
 - If you do not want to use the 16:9 wide function, set the "**16:9 Wide**" menu to "**Off**".
7. To exit, press the **MENU** button.
 - 16:9 wide indicator is displayed.



You cannot set the following functions in the 16:9 Wide mode. If you want to use the following functions, set the "**16:9 Wide**" menu to "**Off**" first.



- "**Mirror**" (Visual Effect).



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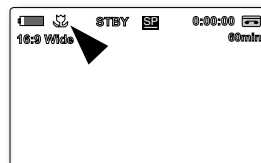
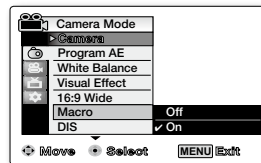
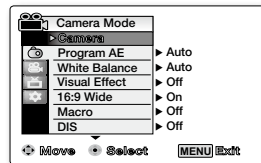
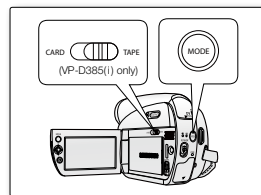
USING THE TELE MACRO (MACRO)

- Tele Macro function works in both **Camera** and **M.Cam** mode. ➡page 18
- Effective focal distance in Tele Macro mode is 50 cm (19.7 inches) to 100 cm (39.4 inches).

1. Set the **Select** switch to **CARD** or **TAPE**. (VP-D385(i) only).
2. Press the **MODE** button to set **Camera** ().
3. Press the **MENU** button.
 - The menu list will appear.
4. Move the **Joystick** (▲ / ▼) up or down to select "**Camera**", then press the **Joystick** or move the **Joystick** (▶) to the right.
5. Move the **Joystick** (▲ / ▼) up or down to select "**Macro**", then press the **Joystick**.
6. To activate the Macro function, move the **Joystick** (▲ / ▼) up or down to select "**On**", then press the **Joystick**.
 - If you do not want to use the Macro function, set the "**Macro**" menu to "**Off**".
7. To exit, press the **MENU** button.
 - Tele Macro () indicator is displayed.

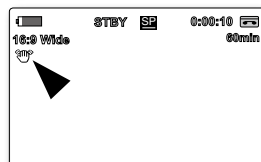
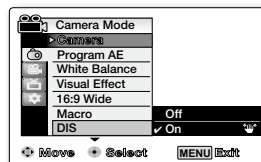
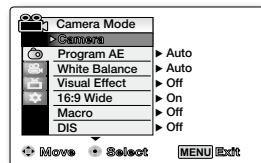
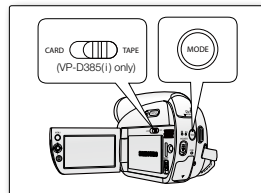


- When recording in Tele Macro mode, the focus speed may be slow.
- When you operate the zoom function in the Tele Macro mode, the recording subject may be out of focus.
- Use a tripod (not supplied) to prevent hand shake in the Tele Macro mode.
- Avoid shadows when recording in the Tele Macro mode.
- As the distance to the subject decreases, focussing area narrows.
- When you can not achieve proper focus, use the **Joystick (W/T)** or **Zoom** lever.



SETTING THE DIGITAL IMAGE STABILIZER (DIS)

- The DIS function works only in **Camera** mode. ➡ page 18
 - DIS (Digital Image Stabilizer) is a function that compensates for any shaking or hand movement while holding the camcorder (within reasonable limits).
 - It provides more stable pictures when:
 - Recording with the zoom
 - Recording a small object close-up
 - Recording and walking at the same time
 - Recording through the window of a vehicle
- Set the **Select** switch to **TAPE**. (VP-D385(i) only).
 - Press the **MODE** button to set **Camera** (📷).
 - Press the **MENU** button.
 - The menu list will appear.
 - Move the **Joystick** (▲ / ▼) up or down to select "**Camera**", then press the **Joystick** or move the **Joystick** (▶) to the right.
 - Move the **Joystick** (▲ / ▼) up or down to select "**DIS**", then press the **Joystick**.
 - To activate the DIS function, move the **Joystick** (▲ / ▼) up or down to select "**On**", then press the **Joystick**.
 - If you do not want to use the DIS function, set the "**DIS**" menu to "**Off**".
 - To exit, press the **MENU** button.
 - DIS (📷) indicator is displayed.
- 📷 • EASY.Q mode automatically sets the "**DIS**" to "**On**".
- You cannot set the following functions in the **DIS** mode.
: "**Mosaic**", "**Mirror**", "**Emboss2**", "**Pastel1**", "**Pastel2**", "**C.Nite**", "**Digital Zoom**"
- Setting the DIS function in 16:9 Wide mode may produce lower quality than in normal mode.
 - When you press the **PHOTO** button while the DIS function is enabled, the DIS will be released shortly and resume automatically after recording a photo image on a tape.
 - It is recommended that you deactivate the DIS function when using a tripod.
 - If you use the DIS function, the picture quality may deteriorate.



advanced recording

USING BACK LIGHT COMPENSATION MODE (BLC)

- BLC works in both **Camera** and **M.Cam** modes. ➡ page 18
- Back lighting exists when the subject is darker than the background:
 - The subject is in front of a window.
 - The person to be recorded is wearing white or shiny clothes and is placed against a bright background; the person's face is too dark to distinguish his/her features.
 - The subject is outdoors and the background is overcast.
 - The light sources are too bright.
 - The subject is against a snowy background.



<BLC Off>

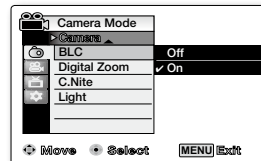
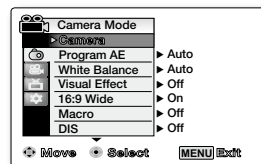


<BLC On>

1. Set the **Select** switch to **CARD** or **TAPE**. (VP-D385(i) only).
2. Press the **MODE** button to set **Camera** ().
3. Press the **MENU** button.
 - The menu list will appear.
4. Move the **Joystick** (/) up or down to select "**Camera**", then press the **Joystick** or move the **Joystick** () to the right.
5. Move the **Joystick** (/) up or down to select "**BLC**", then press the **Joystick**.
6. Move the **Joystick** (/) up or down to select "**On**", then press the **Joystick**.
 - If you do not want to use the BLC function, set the "**BLC**" menu to "**Off**".
7. To exit, press the **MENU** button.
 - BLC () indicator will be displayed.



This function will be set to "**Off**" in the EASY Q mode.



ZOOMING IN AND OUT WITH DIGITAL ZOOM (DIGITAL ZOOM)

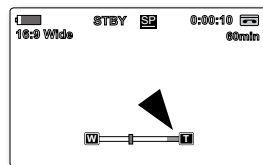
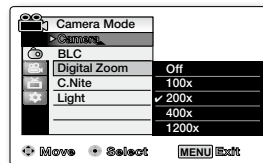
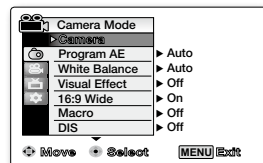
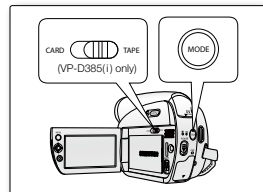
- Maximum Digital Zoom works only in **Camera** mode. ➡ page 18
- You can select the maximum zoom level in case you want to zoom to a level greater than 34x (the default setting) during recording. Up to 34x zoom is performed optically, and after that, up to 1200x zoom is performed digitally.
- The picture quality may deteriorate depending on how much you digitally zoom in on the subject.

Selecting the Digital Zoom

- Set the **Select** switch to **TAPE**. (VP-D385(i) only).
- Press the **MODE** button to set **Camera** ().
- Press the **MENU** button.
 - The menu list will appear.
- Move the **Joystick** (/) up or down to select "**Camera**", then press the **Joystick** or move the **Joystick** () to the right.
- Move the **Joystick** (/) up or down to select "**Digital Zoom**", then press the **Joystick**.
- Move the **Joystick** (/) up or down to select the desired zoom value "**Off**", "**100x**", "**200x**", "**400x**" or "**1200x**", then press the **Joystick**.
 - "**Off**": Only optical zoom is available up to 34x.
- To exit, press the **MENU** button.
 - Move the **Joystick** (/) up or down, or move the **Zoom** lever to use the digital zoom.
 - The digital zoom indicator appears.



- Maximum digital zooming may result in lower picture quality.
- You cannot set the **Digital Zoom** mode in the following modes:
Please release these functions first to set the Digital Zoom mode:
"**EASY.Q**", "**Mosaic**", "**Mirror**", "**Emboss2**", "**Pastel1**", "**Pastel2**", "**DIS**"
- The Digital Zoom mode does not work as following situations:
 - **Tape Photo Recording** (During recording a photo image on a tape)
 - While "**EASY.Q**", "**Mosaic**", "**Mirror**", "**Emboss2**", "**Pastel1**", "**Pastel2**" or "**DIS**" mode is in use.
- When you set the **DIS** mode while **Digital Zoom** mode is in use, Digital Zoom mode will be released.
- You cannot set the **C.Nite** mode while the **Digital Zoom** mode in use.



advanced recording

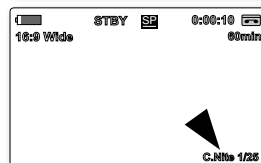
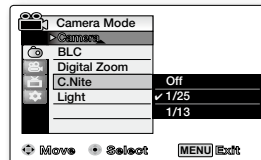
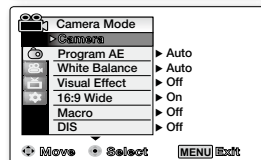
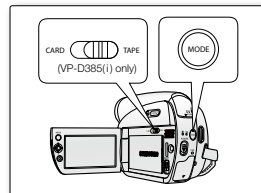
USING THE COLOUR NITE (C.NITE)

- C.Nite function works only in **Camera** mode. ➡ page 18
- You can take a shot of an object in slow motion by controlling the shutter speed, or a brighter image in dark places without compromising colours.

1. Set the **Select** switch to **TAPE**. (VP-D385(i) only).
2. Press the **MODE** button to set **Camera** ().
3. Press the **MENU** button.
 - The menu list will appear.
4. Move the **Joystick** (/) up or down to select "**Camera**", then press the **Joystick** or move the **Joystick** () to the right.
5. Move the **Joystick** (/) up or down to select "**C.Nite**", then press the **Joystick**.
6. Move the **Joystick** (/) up or down to select the C.Nite type, then press the **Joystick**.
 - C.Nite type: "**Off**", "**1/25**", "**1/13**".
7. To exit, press the **MENU** button
 - The indicator of the selected mode is displayed.
 - When the "**Off**" mode is selected, no indicator is displayed.



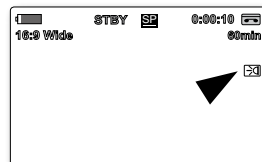
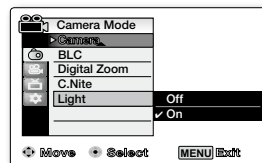
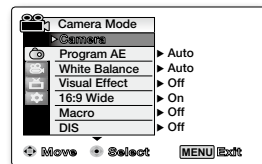
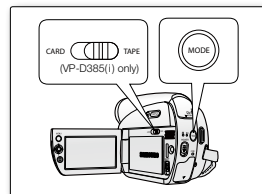
- When using the C.Nite, the image takes on a slow motion like effect.
- When using the C.Nite, the focus adjusts slowly and white dots may appear on the screen. This is not a defect.
- The C.Nite function does not work as following situations:
 - When DIS or EASY.Q is set.
- While using the C.Nite function, you can not use the following functions:
 - "**Program AE**", "**Mosaic**", "**Mirror**", "**Emboss2**", "**Pastel1**", "**Pastel2**", "**BLC**", "**Digital Zoom**", "**Shutter**", "**Exposure**"
 - **Tape Photo Recording**
- If DIS is set, C.Nite mode will be released.



USING THE LIGHT (LIGHT) (VP-D382(i)/D382H/D384/D385(i) ONLY)

- The Light function works only in **Camera** and **M.Cam** mode. ➡ page 18
- The Light function enables you to record a subject in a dark place without compromising colours. For example, you can satisfactorily record the environment of nocturnal animals for observation when you use this function.

1. Set the **Select** switch to **CARD** or **TAPE**. (VP-D385(i) only).
2. Press the **MODE** button to set **Camera** ().
3. Press the **MENU** button.
 - The menu list will appear.
4. Move the **Joystick** (/) up or down to select "**Camera**", then press the **Joystick** or move the **Joystick** () to the right.
5. Move the **Joystick** (/) up or down to select "**Light**", then press the **Joystick**.
6. Move the **Joystick** (/) up or down to select "**On**", then press the **Joystick**.
 - To cancel the Light function, set the "**Light**" menu to "**Off**".
7. To exit, press the **MENU** button.
 - Light () indicator will be displayed.



WARNING



- The light can become extremely hot.
- Do not touch it while in operation or soon after turning it off, otherwise serious injury may occur.
- Do not place the camcorder into the carrying case immediately after using the light, since it remains extremely hot for some time.
- Do not use near flammable or explosive materials.

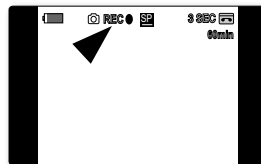
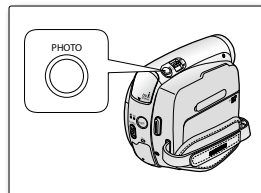


The range of the light is limited. (up to 2m (6.6ft))

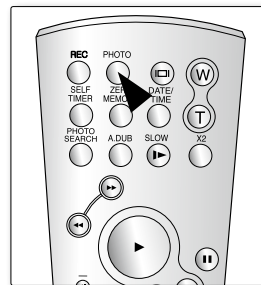
advanced recording

RECORDING A PHOTO IMAGE ON A TAPE -TAPE PHOTO RECORDING

- Tape photo recording works only in **Camera** mode. ➡ page 18
 - You can record a photo image on a tape. The photo image is recorded on a tape for about 6~7 second. This function is useful when you want to record an image such as a photograph on a tape.
1. Set the **Select** switch to **TAPE**. (VP-D385(i) only).
 2. Press the **MODE** button to set **Camera** ().
 3. Press the **PHOTO** button.
 - " **REC** ●" is displayed on the LCD screen, the photo image is recorded for about 6~7 seconds.
 4. After the photo image has been recorded, the camcorder returns to its previous mode.



















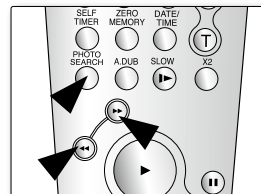
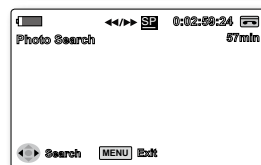
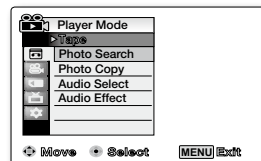
- Tape Photo Recording is recorded for about six or seven seconds, and your camcorder returns to the standby mode. During the seven seconds, you cannot record another photo image.
- During the Tape Photo Recording, do not shake your camcorder. Mosaic-pattern noise may appear on the image.
- During the Tape Photo Recording, you can not set the following functions:
 - "**Visual Effect**", "**DIS**", "**Digital Zoom**", "**C.Nite**"(After tape photo recording, most functions return to the previous mode.)
- Tape Photo Recording does not work as following situations:
 - While recording movie images
 - When "**C.Nite**" is set.
- Your camcorder also can record photo images on a memory card. ➡ page 78
- Press **PHOTO** button on the remote control. Pressing the **PHOTO** button on the remote control records the tape photo image with automatic focussing (VP-D382(i)/D382H/D385(i) only)



<VP-D382(i)/D382H/D385(i) only>

SEARCHING FOR A PHOTO IMAGE ON A TAPE (PHOTO SEARCH)






- The photo search works only in **Player** mode. ➡page 18
1. Set the **Select** switch to **TAPE**. (VP-D385(i) only)
 2. Press the **MODE** button to set **Player** ().
 3. Press the **MENU** button.
 - The menu list will appear.
 4. Move the **Joystick** ( / ) up or down to select "**Tape**", then press the **Joystick** or move the **Joystick** () to the right.
 5. Move the **Joystick** ( / ) up or down to select "**Photo Search**", then press the **Joystick**.
 -  /  will flicker on the LCD screen.
 6. Move the **Joystick** ( / ) left or right to search the tape photo image.
 - The photo search process appears while you are searching.
 - After completing the search, the camcorder displays the tape photo image.
 - When there are no photo images recorded on the tape, it will be fully rewound or forwarded.
 7. To stop the photo search, move down the **Joystick** () or press the **MENU** button.
- 
 - The remote control will help you search for a desired photo image. (VP-D382(i)/D382H/D385(i) only)
 - In STOP mode, press the **PHOTO SEARCH** button on the remote control. When the indicator blinks  /  on the screen, use the  (rewind) or  (fast forward) button to search for a desired image.
 - You can find a photo image of your choice and copy it to the memory card. (VP-D385(i) only) ➡page 88

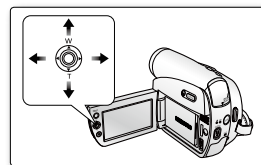
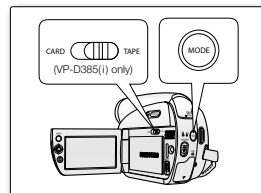


<VP-D382(i)/D382H/D385(i) only>

playback

PLAYING BACK A TAPE ON THE LCD SCREEN

- The playback function and speaker works only in **Player** mode. ➡page 18
 - You can monitor the playback picture on the LCD screen.
1. Insert the tape you wish to view. ➡page 34
 2. Set the **Select** switch to **TAPE**. (VP-D385(i) only)
 3. Press the **MODE** button to set **Player** ().
 4. Open the LCD screen.
 - Adjust the angle of the LCD screen and set the brightness or colour if necessary. ➡page 31
 5. Press the **Joystick**, then move the **Joystick** ( / ) left or right to rewind or forward the tape to the starting point.
 - To stop rewinding or forwarding, move down the **Joystick** ().
 - The camcorder stops automatically after rewinding or forwarding is completed.
 6. Press the **Joystick** to start playback.
 - You can view the picture you recorded on the LCD screen.
 - To stop the play operation, move down the **Joystick** ().

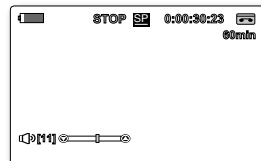
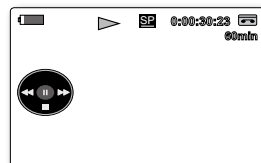


Adjusting the LCD Bright / LCD Colour during Playback

- You can adjust the LCD bright/LCD colour during playback.
- The adjustment method is the same procedure as used in **Camera** mode. ➡page 31

Adjusting the Volume

- When you use the LCD screen for playback, you can hear recorded sound from the built-in speaker.
 - Take the following steps to lower the volume or mute the sound while playing a tape on the camcorder.
- When sound is heard once the tape is in play, use the **Zoom(VOL)** lever to adjust the volume.
 - A volume level display will appear on the LCD screen.
 - Levels may be adjusted from anywhere between "00" to "19".
 - If you close the LCD screen while playing, you will not hear sound from the speaker.
- When the Audio/Video cable is connected to the camcorder, you cannot hear sound from the built-in speaker and cannot adjust the volume.



VARIOUS FUNCTIONS WHILE IN PLAYER MODE

- This function works only in **Player** mode. ➔page 18
- The **PLAY**, **PAUSE**, **STOP**, **FF** and **REW** buttons are located on the remote control (VP-D382(i)/D382H/D385(i) only) and all of which you can manipulate with the **Joystick** (▲/▼/◀/▶) on the camcorder.
- The **F.ADV** (Frame advance), **X2** and **SLOW** buttons are located on the remote control only. (VP-D382(i)/D382H/D385(i) only)
- To prevent tape and head-drum wear, your camcorder will automatically stop if it is left in pause or slow modes for more than 3 minutes.

Playback/Pause

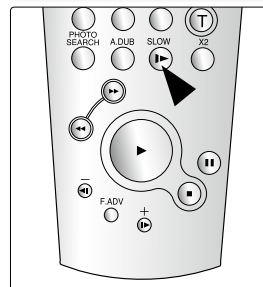
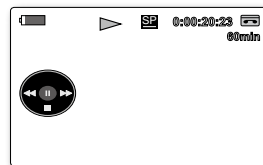
- Press the **Joystick** during playback.
- To resume playback, press the **Joystick**.
(Press the ▶(**PLAY**) or ||(**PAUSE**) button on the remote control.)

Picture Search (Forward/Reverse)

- Move the **Joystick** (◀/▶) left or right during playback or pause mode.
To resume normal playback, press the **Joystick**.
(Press the ◀◀(**REW**) / ▶▶(**FF**) buttons on the remote control.)

Slow Playback (Forward/Reverse) (VP-D382(i)/D382H/D385(i) only)

- Forward Slow Playback
 - Press the I▶(**SLOW**) button on the remote control during playback.
 - To resume normal playback, press the ▶(**PLAY**) button.
- Reverse Slow Playback
 - Press the ◀◀(-) button during forward slow playback.
 - To resume forward slow playback, press the I▶(+/-) button.
 - To resume normal playback, press the ▶(**PLAY**) button.

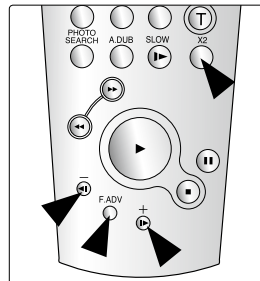


<VP-D382(i)/D382H/D385(i) only>

playback

Frame Advance (To play back frame by frame) (VP-D382(i)/D382H/D385(i) only)

- Press the **F.ADV** button on the remote control while in pause mode.
 - Video sequence advances frame by frame each time you press the **F.ADV** button or **II>(+)** button.
 - The F.ADV function works in pause mode only.
- To resume normal playback, press the **▶(PLAY)** button.
 - **Forward frame advance**
Press the **F.ADV** button or **II>(+)** button on the remote control in pause mode.
 - **Reverse frame advance**
Press the **◀II(-)** button on the remote control to change the direction in F.ADV mode.



<VP-D382(i)/D382H/D385(i) only>

X2 Playback (Forward/Reverse) (VP-D382(i)/D382H/D385(i) only)

- Forward X2 Playback
 - Press the **X2** button on the remote control during playback.
 - To resume normal playback, press the **▶(PLAY)** button.
- Reverse X2 Playback
 - Press the **◀II(-)** button during forward X2 playback.
 - To resume normal playback, press the **▶(PLAY)** button.

Reverse Playback (VP-D382(i)/D382H/D385(i) only)

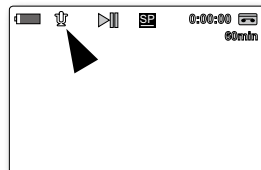
- To play back in reverse at normal speed, press the **◀II(-)** button on the remote control during normal forward playback.
- Press the **▶(PLAY)** button or **II>(+)** button to return to normal forward playback.



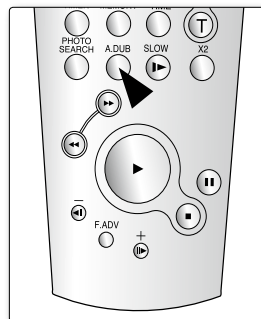
- Mosaic shaped distortion may appear on the screen while in some of the various playback modes. Mosaic shaped distortion or noise may be experienced when you play back tapes recorded in LP which contain various playback functions.
- Sound will only be heard during normal SP or LP playback.
- To activate the remote control, set **"Remote"** to **"On"**. ➡page 25 (VP-D382(i)/D382H/D385(i) only)

AUDIO DUBBING (VP-D382(i)/D382H/D385(i) ONLY)

- This feature enables you to dub your voice through the internal microphone or other audio equipment onto a pre-recorded camcorder tape. The original sound on the tape will not be erased.
- The Audio Dubbing function works only in **Player** mode. ➡ page 18
- You can not dub sound on a pre-recorded tape in LP or 16 bit mode.
- You can add sound to the original sound on a pre-recorded tape recorded in SP mode with 12bit sound.



1. Set the **Select** switch to **TAPE**. (VP-D385(i) only).
2. Press the **MODE** button to set **Player** (▶).
3. Move the **Joystick** (◀/▶) left or right and find the time frame of the scene to be dubbed.
4. Press the **Joystick** to playback, and press it again to pause the scene.
 - If you want to resume to playback, just press the **Joystick** again on playback.
5. Press the **A.DUB** button on the remote control.
 - Audio dubbing (🎤) indicator is displayed.
 - The camcorder is ready for dubbing.
6. Press the **▶(PLAY)** button (on the remote control) or **Joystick** to start dubbing.
 - Press the **■(STOP)** button (on the remote control) or move down the **Joystick** (▼) to stop the dubbing.



<VP-D382(i)/D382H/D385(i) only>










- You can not use the Audio Dubbing function while playing a write protected video tape.
- To utilize an external sound source, use the Audio/Video cable to connect external sound source input. To dub from an external sound source, set **"AV In/Out"** function to **"In"**. (VP-D381i/D382i/D385i only) ➡ page 68

playback

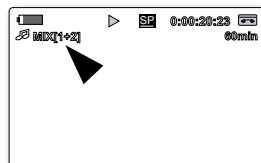
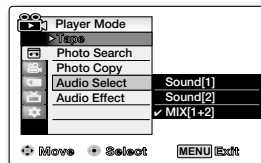
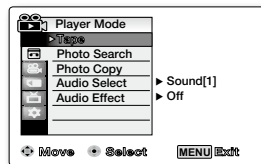
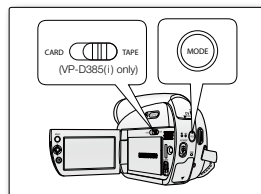
DUBBED AUDIO PLAYBACK (AUDIO SELECT)

- The dubbed Audio playback function works only in **Player** mode. ➡ page 18

- Set the **Select** switch to **TAPE**. (VP-D385(i) only).
- Press the **MODE** button to set **Player** ().
- Insert the dubbed tape and press the **MENU** button.
 - The menu list will appear.
- Move the **Joystick** ( / ) up or down to select "**Tape**", then press the **Joystick** () to the right.
- Move the **Joystick** ( / ) up or down to select "**Audio Select**", then press the **Joystick**.
- Move the **Joystick** ( / ) up or down to select the audio playback channel, then press the **Joystick**.
 - "**Sound[1]**" : Plays the original sound.
 - "**Sound[2]**" : Plays the dubbed sound.
 - "**MIX[1+2]**" : Plays back sound 1 and 2 equally mixed.
- To exit, press the **MENU** button.
- Press the **Joystick** to play back the dubbed tape.
 - To stop the dubbed audio playback, move down the **Joystick** ().











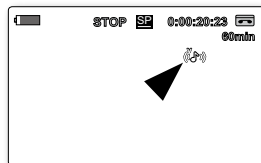
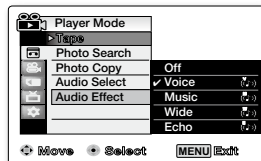
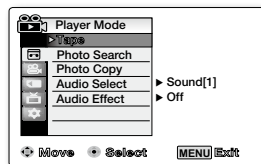
When you play back added sound "**Sound[2]**" or "**MIX[1+2]**", you may experience a loss of sound quality.



AUDIO EFFECT

- Audio effect function works only in **Player** mode. ➡page 18
- Audio effect provides various playback effects to audio signals stored on a tape.

1. Set the **Select** switch to **TAPE**. (VP-D385(i) only)
2. Press the **MODE** button to set **Player** ().
3. Insert the recorded tape and press the **MENU** button.
4. Move the **Joystick** ( / ) up or down to select "**Tape**", then press the **Joystick** () to the right.
5. Move the **Joystick** ( / ) up or down to select "**Audio Effect**", then press the **Joystick**.
6. Move the **Joystick** ( / ) up or down to select the audio effect channel, then press the **Joystick**.
 - "**Off**": Disables the function.
 - "**Voice**": Highlights the human voice.
 - "**Music**": Highlights the sound by enhancing the bass and treble.
 - "**Wide**": Magnifies the stereo effect by enhancing the left and right sounds.
 - "**Echo**": Gives an echo effect.
7. To exit, press the **MENU** button.





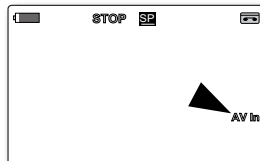
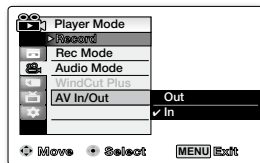
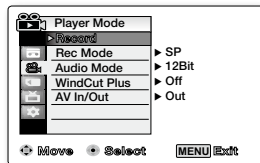
- We recommended connecting to stereo devices (TV, speakers) for better audio effects.
- Audio effect function is not available with DV connection.

connection

SETTING THE AV IN/OUT (AV IN/OUT) (VP-D381i/D382i/D385i ONLY)

- AV In/Out function works only in **Player** mode. ➡ page 18
- AV In/Out setting enables you to record signals from external sources and display it on LCD screen. Also, you can send your video or image to external devices to record or play back.


1. Set the **Select** switch to **TAPE**. (VP-D385(i) only)
 2. Press the **MODE** button to set **Player** ().
 3. Press the **MENU** button.
 - The menu list will appear.
 4. Move the **Joystick** (▲ / ▼) up or down to select "**Record**", then press the **Joystick** or move the **Joystick** (▶) to the right.
 5. Move the **Joystick** (▲ / ▼) up or down to select "**AV In/Out**", then press the **Joystick**.
 6. Move the **Joystick** (▲ / ▼) up or down to select "**Out**" or "**In**", then press the **Joystick**.
 - "**Out**": Select this when copying or playing back the contents of this camcorder onto the external device.
 - "**In**": Select this when recording the contents of an external device to the camcorder.
 7. To exit, press the **MENU** button.
-  • When recording images from a VCR, playback must be at normal speed, or a grey image will appear on the camcorder.
- If "**AV In/Out**" is set to "**In**", the windcut plus function is not available.

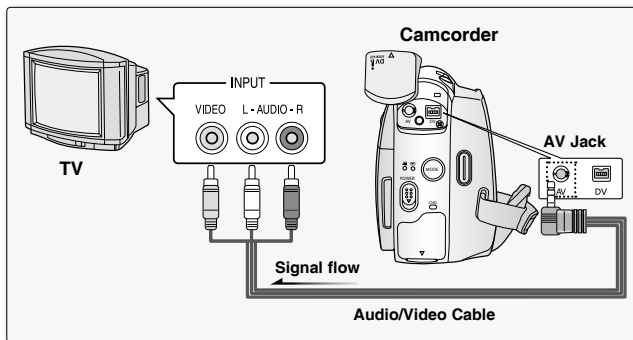


TAPE PLAYING BACK ON A TV SCREEN

- The playback function works only in **Player** mode. ➡page 18
- To play back a tape, the television must be PAL compatible. ➡page 102
- We recommend that you use the AC power adapter as the power source for the camcorder.

Connecting to a TV that has Audio/Video Input Jacks

1. Connect the camcorder to your TV with the Audio/Video cable.
 - The yellow jack: Video
 - The white jack: Audio(L)-mono
 - The red jack: Audio(R)
- If you connect to a mono TV, connect the yellow jack (Video) to the video input of the TV and the white jack (Audio L) to the audio input of the TV.
2. Set the **Select** switch to **TAPE**.
(VP-D385(i) only)
3. Press the **MODE** button to set **Player** ().
4. Turn on the TV and set the TV/VIDEO selector on the TV to Video.
 - Refer to the TV user's manual.
5. Play the tape. ➡page 70



If you connect the cable to the AV jack, you will not hear sound from the camcorder's speaker.

connection

Connecting to a TV that has no Audio/Video Input Jacks

- You can connect your camcorder to a TV through a VCR.

1. Connect the camcorder to your VCR with the Audio/Video cable.

- The yellow jack: Video
- The white jack: Audio(L) - mono
- The red jack: Audio(R)

2. Connect a TV to the VCR.

3. Set the **Select** switch to **TAPE**.

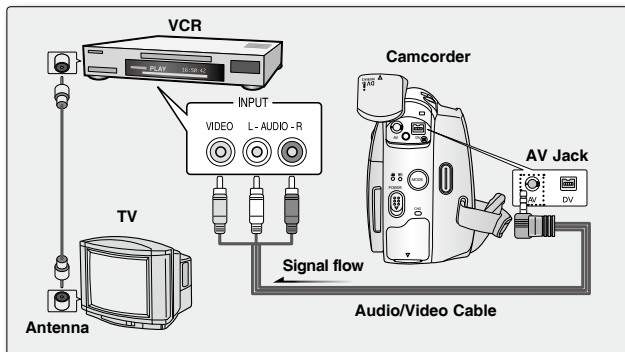
(VP-D385(i) only).

4. Press the **MODE** button to set **Player** (▶).

5. Turn on both the TV and VCR.

- Set the input selector on the VCR to line.
- Select the channel reserved for your VCR on the TV set.

6. Play the tape.



Playback the tape

1. Connect a power source.

2. Insert the tape you wish to play back.

3. Set the **Select** switch to **TAPE**. (VP-D385(i) only).

4. Press the **MODE** button to set **Player** (▶).

5. Move the **Joystick** (◀/▶) left or right, find the first position you wish to play back.

6. Press the **Joystick**.

- The images you recorded will appear on the TV after a few seconds.
- If a tape reaches its end while being played back, the tape will rewind automatically.

7. To stop the playback, move down the **Joystick** (▼).




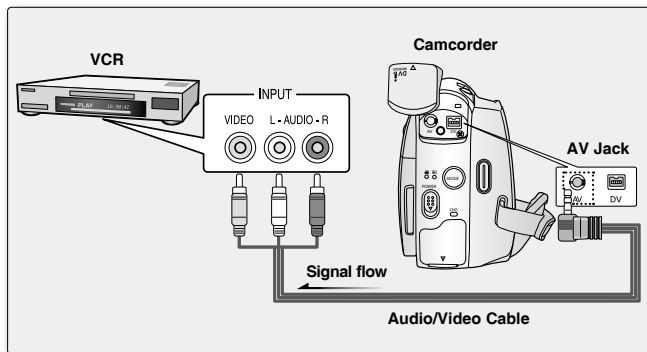
- The playback mode (SP/LP) is selected automatically.

- If only a mono audio input is available on the TV set, use the audio cable with the white jack (Audio L).

COPYING A CAMCORDER TAPE ONTO A VIDEO TAPE

- The copying function works only in **Player Mode**. ➡ page 18
- Connect your camcorder to a VCR using the AV jack to copy the recording from a camcorder tape onto a VCR tape.
- Set the **"AV In/Out"** to **"Out"** before copying to an external device. (VP-D381i/D382i/D385i only) ➡ page 68

1. Insert the tape you want to copy in your camcorder.
2. Set the **Select** switch to **TAPE**. (VP-D385(i) only).
3. Press the **MODE** button to set **Player** ().
4. Insert a new video tape in your VCR.
5. Connect the camcorder to your VCR with the Audio/Video cable.
 - Connect the Audio/Video cable to the input jack on your VCR.
 - The yellow jack: Video
 - The white jack: Audio(L)-mono
 - The red jack: Audio(R)



6. Press the Record button on your VCR to start recording.
7. Play the tape on your camcorder. Please refer to page 70 to see how to play a tape.
 - if you do not want to copy the screen display, set the **"TV Display"** to **"Off"** in the menu. ➡ page 33

When Copying is Complete:

Stop recording on your VCR, then move down the **Joystick** (▼) on your camcorder.




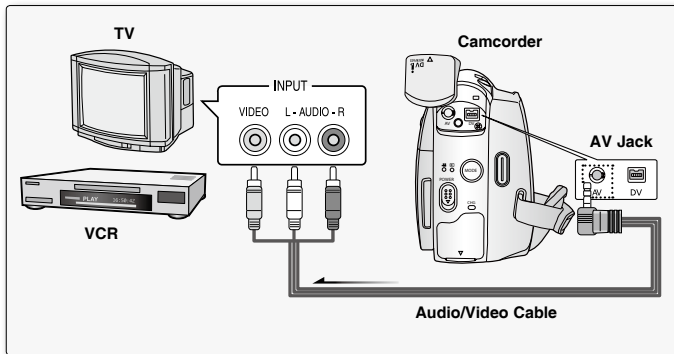
- If you operate the camcorder while connected to another device, always connect the camcorder to an AC outlet using the AC power adapter.
- You can also copy images to other external storage media using this camcorder.


connection

USING THE VOICE+ FUNCTION





- The Voice+ function works only in **Player** mode. ➡ page 18
- When you want to play back or record a tape-recorded movie on other AV device, you can transfer the voice sound incoming from the internal microphone of your camcorder, instead of the audio signals on a prerecorded tape.

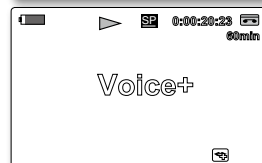
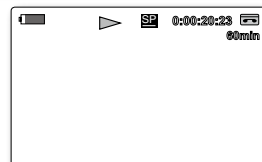
1. Connect the provided Audio/Video cable to the AV Jack of the camcorder.
2. Connect the other end of the cable to the VCR/DVD Recorder/TV by matching the colours of the terminals.
3. Set the **Select** switch to **TAPE**. (VP-D385(i) only).
4. Press the **MODE** button to set **Player** ().
5. Insert the tape you wish to play back in this camcorder.
6. Press the **Recording start/stop** button on a point where you want during the playback.



- Voice+ () indicator is displayed on the screen and "VOICE+" will flicker on the screen for a while.
 - Sound incoming from the internal microphone will be transferred to the connected AV device, instead of the pre-recorded sound on the tape.
7. To cancel the function, press the **Recording start/stop** button again.



- Voice+ is available only when the Audio/Video cable is connected. If a different cable (DV or USB cable (VP-D385(i) only)) is connected, Voice+ function may not operate properly.
- If you move the **Joystick** ( /  /  / ) when you operate Voice+ function, Voice+ function will be deactivated.
- During the Voice+ process, the **MENU** and **PHOTO** button functions do not work.
- The Voice+ function does not affect the original sound on the recorded tape.
- Sound is transferred from the internal microphone on this camcorder to the connected AV device, when using the Voice+ function. So make sure that this microphone is not blocked.
- Adjust the sound volume on the connected external device. (TV, etc.)
- Howling may occur near the speaker of an external device, please keep the camcorder at a distance from the external device.
- Before connecting, make sure that the volume on the external device is turned down. Forgetting this may cause howling from the external device's speakers.



RECORDING (COPYING) A TV PROGRAMME OR VIDEO TAPE ONTO A CAMCORDER TAPE (VP-D381i/D382i/D385i ONLY)

- The recording (copying) function works only in **Player** mode. ➔ page 18
- Connect your camcorder to a VCR or a TV using the AV jack to record a TV programme or copy a video tape onto a camcorder tape.
- Set the "**AV In/Out**" to "**In**" before recording (copying). ➔ page 68

Recording (Copying) onto a Camcorder Tape

1. Get your TV or VCR ready.
2. Connect the camcorder to your VCR or TV with the Audio/Video cable.
 - Connect the Audio/Video cable to the output jack on your VCR or TV
 - The yellow jack: Video
 - The white jack: Audio (L)- Mono
 - The red jack: Audio (R)
3. Insert a blank tape in your camcorder.

To record from a VCR

4. Insert the video tape to be played in your VCR.
 - Pause at the starting point of playing.
5. Start copying by pressing the **Recording start/stop** button on your camcorder.
6. Press the PLAY button on your VCR to play the tape.

To record from a TV

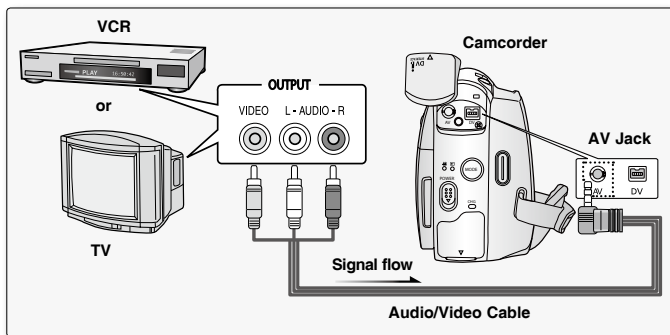
4. Select a TV channel to be recorded.
5. Start recording by pressing the **Recording start/stop** button on your camcorder.

When Recording (Copying) is Complete:

Move down the **Joystick** (▼) on your camcorder to stop recording (copying).



- If you operate the camcorder connected to another device, always connect the camcorder to an AC outlet using the AC power adapter.
- The recorded contents can be played back in the same manner as when playing back images recorded on this camcorder.
- Copy-protected video tapes such as Macrovision or unstable TV signals cannot be recorded on this camcorder.



digital still camera mode (VP-D385(i) only)

USING A MEMORY CARD (USABLE MEMORY CARD) (NOT SUPPLIED)

- This camcorder can use SD memory cards and MMC (Multi Media Cards). Some cards are not compatible depending on the memory card manufacturer and memory card type.
- The memory card stores and manages images recorded by the camcorder.
- Before inserting or ejecting the memory card, turn the miniDV camcorder off.

Memory Card Functions

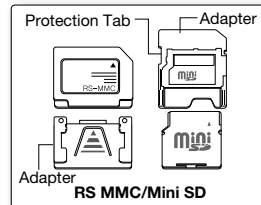
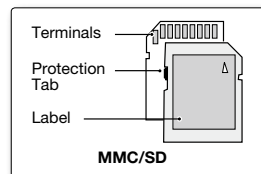
- Recording/Viewing Images.
- Protecting Images from accidental erasure. (except MMC)
- The MMC does not have a protection tab.
- When using the MMC, be careful not to edit or delete data by mistake.
- Deleting images stored in memory card
- Marking photo images with print Information
- Formatting memory cards

Inserting a Memory Card

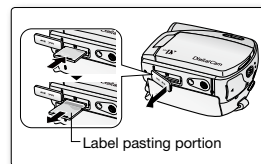
1. Open the memory card cover.
2. Insert the memory card into the memory card slot until it softly clicks.
3. Close the memory card cover.

Ejecting a Memory Card

1. Open the memory card cover.
2. Slightly push the memory card inwards to pop it out.
3. Pull the memory card out of the slot and close the memory card cover.



*RS MMC or Mini SD should be inserted by using an Adapter (not supplied)



* 1GB = 1,000,000,000 bytes; actual formatted capacity may be less as the internal firmware uses a portion of the memory.



- Do not apply excessive force when you insert/eject the memory card.
- Do not turn the power off while recording, loading, erasing a photo image or formatting the memory card.
- Turn the power off before you insert or eject the memory card to avoid losing data.
- Do not place the memory card near a strong electro-magnetic device.
- Do not allow metal substances to come in contact with the terminals on the memory card.
- Do not bend, drop or apply strong shock to memory card.
- After removing the memory card from the camcorder, keep it in a soft case to prevent static shock.
- The data stored on the memory card may be changed or lost as a result of misuse, static electricity, electric noise or repair. Save important images separately. Samsung is not responsible for data loss due to misuse.
- RS-MMC or Mini SD should be inserted by using the Adaptor (not supplied).
- In **M.Cam** or **M.Player** mode, the 16:9 wide mode is not supported. The wide screen only displays in the aspect ratio of 4:3.
- The camcorder supports up to 2GB SD/MMC and lower. SD/MMC above 2GB may not record or play properly.

STRUCTURE OF FOLDERS AND FILES ON THE MEMORY CARD

- The folder and file structure for the memory card is as follows:
- Do not arbitrarily change or remove the folder or file name. It may not be playable.
- The file naming follows DCF (Design rule for Camera File System).

Image configuration file 1

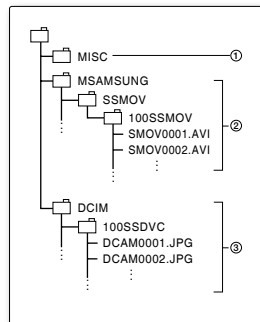
This is where data for photo files such as DPOF are stored.

Movie image file 2

The movie images are formatted with a file name as follows: SMOV_####.AVI.
The file number automatically increases when a new movie image file is created.
When the number of files exceeds 99, a new folder is created and it is stored as 101SSMOV.

Photo image file 3

As in movie image files, the file number automatically increases when a new image file is created. When the number of photo images exceeds 99, a new folder is created. A new folder stores files from DCAM_0001.JPG. The folder name increases in the order of 100SSDVC → 101 SSDVC, etc.



digital still camera mode (VP-D385(i) only)

Image format

Photo image

- Photo images are compressed in JPEG (Joint Photographic Experts Group) format.
- The file extension is ".JPG"
- The image size is 800x600. ➡page 78 (Tape Capture 640x480)

Movie image

- Images are compressed in MPEG4 (Moving Picture Experts Group) format.
- The file extension is ".AVI"
- The picture size is 720X576. ➡page 84



- Up to 99 files are created in one folder. New folder is created when more than 99 files are created.
- You may modify the name of a file/folder stored in the memory card) using a PC.
This camcorder may not recognise modified files.

Number of Images on the Memory Card

Photo Size	128MB	256MB	512MB	1GB	2GB
800x600	Approx. 600	Approx. 1200	Approx. 2400	Approx. 4830	Approx. 9740



- The number of images that can be stored on a memory card depends on various conditions.
- Photo images (JPEG) can be stored in the memory card up to 20,000 files.

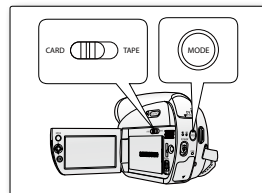
Recording time available on the Memory Card

	128MB	256MB	512MB	1GB	2GB
Moving image	Approx. 8min	Approx. 16min	Approx. 32min	Approx. 64min	Approx. 120min

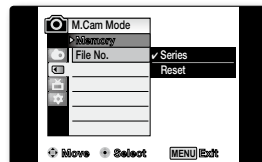
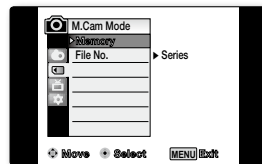
- These times are approximate as recording capacities can be affected by variables such as subject matter and memory card type.

SETTING THE FILE NUMBER (FILE NO.)

- File number setting works only in **M.Cam** mode. ➡ page 18
- File numbers are given to images in the order they were recorded when they are stored on the memory card.
- File numbers may be set as follows:
 - **"Series"**: When there are existing files, the new image will be named as the next number in the sequence.
 - **"Reset"**: When there are no files stored on the memory card, the file numbering starts from 0001.



1. Set the **Select** switch to **CARD**.
2. Press the **MODE** button to set **Camera** ().
3. Press the **MENU** button.
 - The menu list will appear.
4. Move the **Joystick** (/) up or down to select **"Memory"**, then press the **Joystick**.
5. Move the **Joystick** (/) up or down to select **"File No."**, then press the **Joystick**.
6. Move the **Joystick** (/) up or down to select the desired option **"Series"** or **"Reset"**, then press the **Joystick**.
7. To exit, press the **MENU** button.





When you set **"File No."** to **"Series"**, each file is assigned with a different number so as to avoid duplicating file names. It is convenient when you want to manage your files on a PC.

digital still camera mode (VP-D385(i) only)

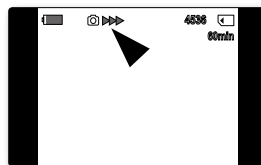
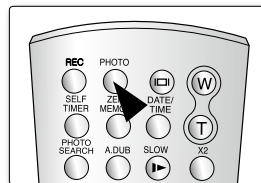
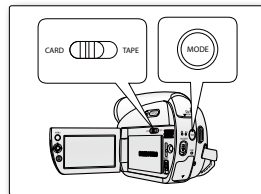
TAKING A PHOTO IMAGE (JPEG) ON THE MEMORY CARD

- You may take photo images while in **M.Cam** mode and store the images on the memory card. ➔page 18
- You can take photo images using the remote control.

1. Set the **Select** switch to **CARD**.
2. Press the **MODE** button to set **Camera** ().
3. After framing your object to record, fully press the **PHOTO** button to take the picture.
 - The picture is taken and saved into the memory card within a few seconds.
 - Taking another picture within this interval is not possible.
 - A shutter sound is heard. When the "  >>> " indicator disappears, the photo image has been recorded.



- Photo images are saved more widely than have been taken in LCD screen.
- Photo images are saved in the memory card in an 800x600 format.
- The number of photo images that can be stored depends on the quality of the image.
- Photo images (JPEG) can be stored in a memory card up to 20,000 files.
- The photo images that you recorded are saved in JPEG file format on the memory card.
- In M.Cam or M.Player mode, the 16:9 wide mode is not supported. The wide mode only displays in the aspect ratio of 4:3.
- Audio will not be recorded with the photo image on the memory card.
- Do not operate the **POWER** switch or remove the memory card while recording photo images. Doing so may damage the memory card.



VIEWING PHOTO IMAGES (JPEG)

- This function works only in **M.Player** mode. ➡ page 18
You can play back and view photo images recorded on the memory card.
- Be sure that the **M.Play Select** is set to **Photo** in the menu. ➡ page 86

1. Set the **Select** switch to **CARD**.
2. Press the **MODE** button to set **Player** (▶).
 - The last recorded image appears. If there are no recorded images on the memory card, "**No image!**" is displayed.

To view a Single Image

Move the **Joystick** (◀/▶) left or right, search for the desired photo image.

- To view the next image: Move the **Joystick** (▶) to the right.
- To view the previous image: Move the **Joystick** (◀) to the left.
- Press and hold the **Joystick** (◀/▶) to either the left or right to quickly scan for a photo image.

To view a Slide Show

Press the **Joystick**.

- The "**Slide**" is displayed. The Slide Show will start from the current picture.
- All images will be played back consecutively for 2~3 seconds each.

To stop the slide show, press the **Joystick** again.

To view the Multi Display

If you move down the **Joystick** (▼) (◻◻), you will see a message of "**Please wait..**" and 6 photo images on the screen in a moment.

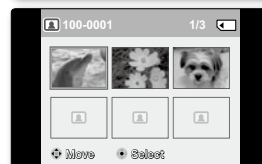
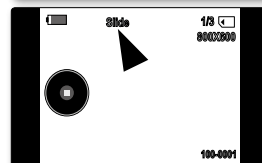
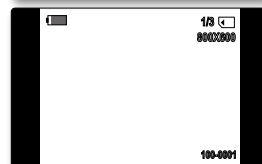
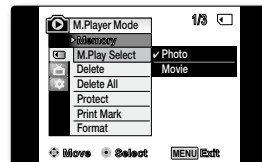
- To display the previous six images, press and hold the **Joystick** (◀) for about 3 seconds.
- To display the next six images, press and hold the **Joystick** (▶) button for about 3 seconds.
- Move the **Joystick** (◀/▶/▲/▼) to search for the desired photo image.

To return to single playback mode, press the **Joystick** again.

- Selected picture is displayed in full screen.



Any large sized image taken with another device will be displayed as a thumbnail image.

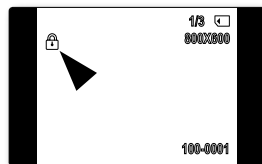
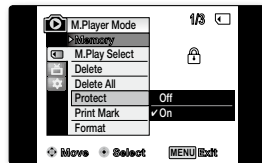


digital still camera mode (VP-D385(i) only)

PROTECTION FROM ACCIDENTAL ERASURE (PROTECT)

- The Protection function works only in **M.Player** mode. ➡page 18
- You can protect important images from accidental erasure.
If you format the camcorder, all images including protected images will be erased.










1. Set the **Select** switch to **CARD**.
2. Press the **MODE** button to set **Player** (▶).
 - The last recorded image appears.
 - If there are no recorded images on the memory card, **"No image!"** is displayed.
3. Move the **Joystick** (◀ / ▶) left or right, search for the photo image that you want to protect.
4. Press the **MENU** button.
 - The menu list will appear.
5. Move the **Joystick** (▲ / ▼) up or down to select **"Memory"**, then press the **Joystick**.
6. Move the **Joystick** (▲ / ▼) up or down to select **"Protect"**, then press the **Joystick**.
7. Move the **Joystick** (▲ / ▼) up or down to select **"On"**, then press the **Joystick**.
8. To exit, press the **MENU** button.
 - Protection (🔒) indicator is displayed.

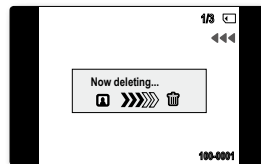
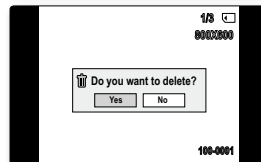
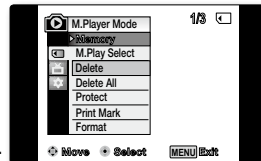


- If the write protection tab on the memory card is set to LOCK, you cannot set image protection.
- Protected images can not be removed in any way even by executing the **"Delete All"** command in the menu.





DELETING PHOTO IMAGES AND MOVING IMAGES (DELETE)

- The Delete function works only in **M.Player** mode. ➡page 18
- You can erase the photo images and moving images recorded on the memory card.
- To delete a protected image, first cancel image protection.
- Once you delete an image, you cannot restore it. Check the images to delete carefully before deleting them.

1. Set the **Select** switch to **CARD**.
2. Press the **MODE** button to set **Player** ().
 - The last recorded image appears.
 - If there are no recorded images on the memory card, "**No image!**" is displayed.
3. Move the **Joystick** ( / ) left or right, search for the photo image that you want to delete.
4. Press the **MENU** button.
 - The menu list will appear.
5. Move the **Joystick** ( / ) up or down to select "**Memory**", then press the **Joystick**.
6. Move the **Joystick** ( / ) up or down to select "**Delete**", then press the **Joystick**.
 - A message "**Do you want to delete?**" is displayed.
7. Move the **Joystick** ( / ) left or right to select "**Yes**" or "**No**", then press the **Joystick**.



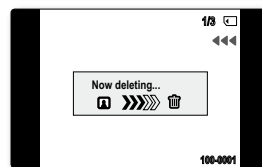
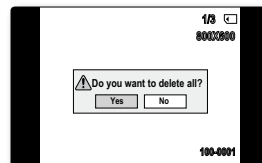
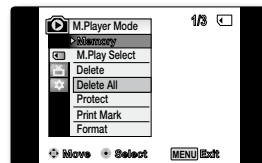
Using the Joystick

- You can directly access the delete function using the **Joystick**.
1. Move up the **Joystick** () to select "**Delete** ()".
 - A message "**Do you want to delete?**" is displayed.
 2. Move the **Joystick** ( / ) left or right to select "**Yes**" or "**No**", then press the **Joystick**.

digital still camera mode (VP-D385(i) only)








Deleting All Images at Once

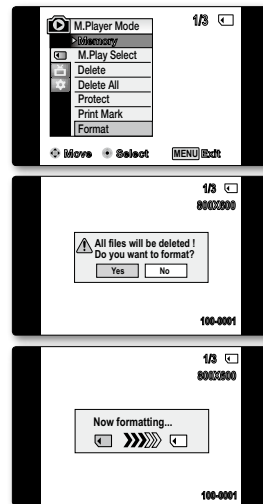
1. Set the **Select** switch to **CARD**.
2. Press the **MODE** button to set **Player** (▶).
 - The last recorded image appears.
 - If there are no recorded images on the memory card, **"No image!"** is displayed.
3. Move the **Joystick** (◀ / ▶) left or right, search for the photo image that you want to delete.
4. Press the **MENU** button.
 - The menu list will appear.
5. Move the **Joystick** (▲ / ▼) up or down to select **"Memory"**, then press the **Joystick**.
6. Move the **Joystick** (▲ / ▼) up or down to select **"Delete All"**, then press the **Joystick**.
 - A message **"Do you want to delete all?"** is displayed.
7. Move the **Joystick** (◀ / ▶) left or right to select **"Yes"** or **"No"**, then press the **Joystick**.
8. To exit, press the **MENU** button.



- When there is no stored picture on the memory card, the message **"No image!"** will be displayed.
- If an erroneous image file is found on the memory card, the message **"Memory Card Error!"** will be displayed. It may be caused by copying images from different digital devices.
- To protect important pictures from accidental deletion, activate the image protection. ➡ page 80
- You can use the format functions to completely delete all images and options on the memory card, including protected images. ➡ page 83
- Deleting all files using the **"Delete All"** menu may take a while. To delete all files much faster, format the memory card after backing up the files onto another storage device.

FORMATTING A MEMORY CARD (FORMAT)

- The format function works only in **M.Player** mode. ➡page 18
 - You can use the format functions to completely delete all images and options on the memory card, including protected images.
 - The format function restores the memory card to its initial state.
1. Set the **Select** switch to **CARD**.
 2. Press the **MODE** button to set **Player** ().
 3. Press the **MENU** button.
 - The menu list will appear.
 4. Move the **Joystick** ( / ) up or down to select "**Memory**", then press the **Joystick**.
 5. Move the **Joystick** ( / ) up or down to select "**Format**", then press the **Joystick**.
 - A message "**All files will be deleted! Do you want to format?**" is displayed.
 6. Move the **Joystick** ( / ) left or right to select "**Yes**" or "**No**", then press the **Joystick**.
 - "**Complete!**" is displayed when the format is completed.
 7. To exit, press the **MENU** button.



- If you execute the format function, all photo images/moving images will be erased completely and erased photo images/moving images cannot be recovered.
- Formatting the memory card using a different device will cause memory card read errors.
- Do not turn the power off in the middle of the formatting.
- A memory card with the protection tab set to save will not be formatted. ➡page 74
- Do not format the memory card on a PC. "**Not formatted!**" message may appear if a memory card formatted on a PC is inserted.



If you execute the format function, all images will be erased completely and erased images cannot be recovered.

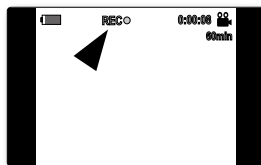
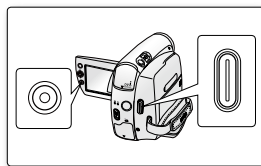
digital still camera mode (VP-D385(i) only)

RECORDING MOVING IMAGES (MPEG) ON A MEMORY CARD

- You may record moving images while in **M.Cam** mode and store the images on a memory card. ➡page 18
- You can record moving images with audio on a memory card.
- The screen format of the moving image to be recorded is 720X576.

Saving moving images onto a Memory Card

1. Set the **Select** switch to **CARD**.
2. Press the **MODE** button to set **Camera** (📷).
3. Press the **Recording start/stop** button, the moving images are recorded on the memory card in MPEG4.
 - "REC●" is displayed on the LCD screen.
 - You can record a photo image on memory card by pressing the **PHOTO** button instead of the **Recording start/stop** button. ➡page 78
4. Press the **Recording start/stop** button to stop the recording.



RECORDING MOVING IMAGES (MPEG) ON A MEMORY CARD


















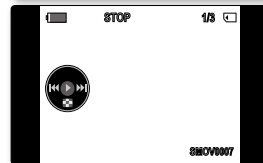
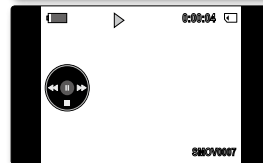
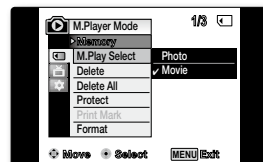
- Up to 2000 MPEG files can be stored on a memory card.
- MPEG files (moving images) can be recorded up to 2 GB per a moving file.
- Before using the recording a moving image function, check whether the memory card is inserted into the camcorder.
- **MENU** button is not available while recording a moving image. To use **MENU** button, stop recording. Recording a moving image is not available when a MENU is displayed on the screen. To start recording, press the **MENU** button to make the menu disappear.
- Moving images that you recorded are saved in *.avi (avi 1.0) file format on the memory card.
- The moving images on a memory card are a smaller size and lower definition than images on tape.
- The sound is recorded in mono.
- The following functions are not allowed in **M.Cam** mode. "**DIS**", "**Digital Zoom**", "**Fade**", "**Program AE**", "**Visual Effect**", "**16:9 Wide**", "**C.Nite**"
- While recording on a memory card, don't insert or eject the tape as it may record noise.
- While recording on a memory card, don't eject the memory card or it may break the data on the memory card or memory card itself.
- Turning the power off while accessing the memory card may damage the data stored on the memory card.

digital still camera mode (VP-D385(i) only)

PLAYING THE MOVING IMAGES (MPEG) ON A MEMORY CARD (M.PLAY SELECT)

- The moving Images playback function works only in **M. Player** mode. ➔page 18
- You can play the moving images on a memory card.
- The playback picture will be of higher quality if it is viewed on a PC rather than on a TV.

1. Set the **Select** switch to **CARD**.
 2. Press the **MODE** button to set **Player** ().
 3. Press the **MENU** button.
 - The menu list will appear.
 4. Move the **Joystick** ( / ) up or down to select "**Memory**", then press the **Joystick**.
 5. Move the **Joystick** ( / ) up or down to select "**M.Play Select**", then press the **Joystick**.
 6. Move the **Joystick** ( / ) up or down to select "**Movie**", then press the **Joystick**.
 7. To exit the menu, press the **MENU** button.
 8. Move the **Joystick** ( / ) to search for the desired moving image, then press the **Joystick**.
 - The moving images recorded on the memory card will be played back.
 9. To stop the playback, move down the **Joystick** ().
 - Use the **Zoom** lever to adjust the volume in STOP mode.
 - Move down the **Joystick** () in STOP mode.
 - You will see a message of "**Please wait..**" and 6 moving images on the screen in a moment.
 - Move the **Joystick** ( /  / ) to search for the desired moving image, then press the **Joystick**.
 - Use the **Joystick** to enjoy various playback operations.
 - Press the **Joystick** to pause or play back.
 - Move the **Joystick** right or left to search playback during playback or pause mode.
-  • **MENU** button is not available during moving image playback. To use **MENU** button, stop playback. Moving image playback is not available when a MENU is displayed on the screen. To start playback, press **MENU** button to make it disappear.
- There may be broken or mosaic pictures while playing the moving images, but it is not a malfunction.
 - The moving images that you recorded on the memory card may not play on other manufacturer's equipment.
 - The moving images recorded by another camcorder may not play on this camcorder.
 - To play back moving images on a PC, the video codec (in the CD provided with the camcorder) should be installed.
 - You need Microsoft Windows Media Player version 9 or higher version in order to play moving images on the memory card on your PC.
 - You can download Microsoft Windows Media Player with your desired language from the Microsoft website, "<http://www.microsoft.com/windows/windowsmedia/download/default.asp>".



RECORDING AN IMAGE FROM A TAPE AS A PHOTO IMAGE

- This function works only in **Player** mode. ➡ page 18
- Your camcorder can read moving image data recorded on a tape, and record it as a photo image on a memory card.

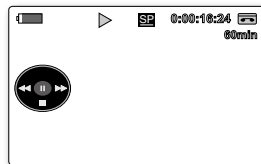
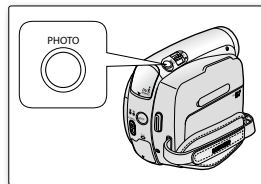
Before operation

Insert a recorded tape and a memory card into your camcorder.

1. Set the **Select** switch to **TAPE**.
2. Press the **MODE** button to set **Player** (▶).
3. Press the **Joystick**, playback the cassette.
 - The image recorded on the tape is played back.
4. Press the **PHOTO** button.
 - The photo image is recorded on the memory card.
 - During the time it takes to save an image, the playback screen is paused and the OSD is displayed.
5. When you finish the recording, move down the **Joystick** (▼) to stop recoding and switch the mode to **M.Player** for your visual reference. ➡ page 79



- Photo images copied from the cassette to the memory card are saved in 640x480 format.
- Number of images you can save varies depending on the image resolution.








digital still camera mode (VP-D385(i) only)

COPYING A PHOTO IMAGE FROM A TAPE TO A MEMORY CARD (PHOTO COPY)

- The photo copy function works only in **Player** mode. ➡page 18
- Using the search function, you can automatically take in only photo image from tapes recorded in your miniDV camcorder and record them on a memory card in sequence.

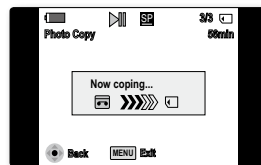
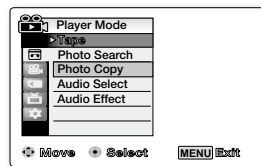
Before operation

- Insert a tape recorded in your miniDV camcorder and rewind the tape.
- Insert a memory card into your camcorder.

1. Set the **Select** switch to **TAPE**.
2. Press the **MODE** button to set **Player** ().
3. Press the **MENU** button.
 - The menu list will appear.
4. Move the **Joystick** ( / ) up or down to select "Tape", then press the **Joystick**.
5. Move the **Joystick** ( / ) up or down to select "Photo Copy", then press the **Joystick**.
 - All photo images recorded on the cassette tape will be copied onto a memory card.
6. The camcorder automatically performs the photo image search to find photo images and copy starts.
7. Move down the **Joystick** () to stop copying.
 - Copy stops when the cassette is finished or memory card is full.
8. Switch to the **M.Player** mode before you can see the photo image. ➡page 79
 - The last photo image of the tape-recorded will be displayed.



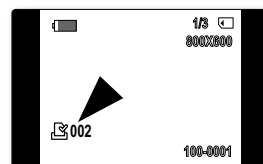
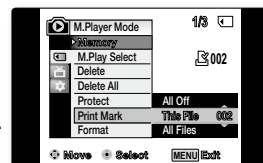
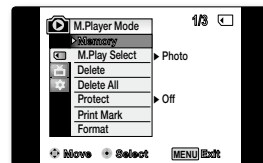
- Photo images copied from the cassette to the memory card are saved in 640x480 format.
- Even when you have copied the photo images recorded on the tape into the memory card, they still remain on the tape.



MARKING IMAGES FOR PRINTING (PRINT MARK)

- The print mark function works only in **M.Player** mode. ➡page 18
- This camcorder supports the DPOF (Digital Print Order Format) print format.
- You can automatically print images recorded on a memory card with a printer supporting DPOF.
- Be sure that the **M.Play Select** is set to **Photo** in the menu. ➡page 79
- There are 2 ways to make a print mark.
 - **"This File"**: You can set a print mark on the image displayed on the LCD screen. It can be set up to 999.
 - **"All Files"**: To print 1 copy each of all of the stored images.

1. Set the **Select** switch to **CARD**.
2. Press the **MODE** button to set **Player** ().
 - The last recorded image appears.
3. Move the **Joystick** ( / ) left or right, search for the photo image that you want to mark.
4. Press the **MENU** button.
 - The menu list will appear.
5. Move the **Joystick** ( / ) up or down to select **"Memory"**, then press the **Joystick**.
6. Move the **Joystick** ( / ) up or down to select **"Print Mark"**, then press the **Joystick**.
7. Move the **Joystick** ( / ) up or down to select the desired option **"All Off"**, **"This File"** or **"All Files"**, then press the **Joystick**.
8. If you select **"This File"**, move the **Joystick** ( / ) up or down to select the quantity, then press the **Joystick**.
9. To exit, press the **MENU** button.
 - Print mark () indicator and number of prints are displayed.



Removing the Print Mark

To remove all Print Marks, select **"All Off"**.

To remove an individual file's Print Mark, select the file and set **"This File"** to **"000"**.










- If the Print Mark is set to **"This File"**, you can set the number of copies from **"000"** to **"999"**.
- If the Print Mark is set to **"All Files"**, you can set the number of copies to **"001"**.
- The **"All Files"** option may require extended operation time depending on the number of stored images.
- DPOF supported printers are commercially available.

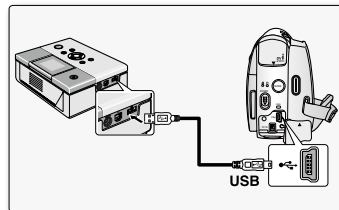
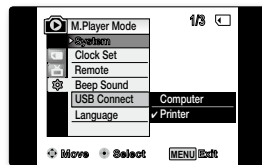
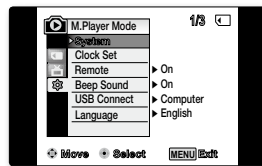
pictbridge™ (VP-D385(i) only)

PRINTING YOUR PICTURES – USING THE PICTBRIDGE™

- PictBridge™ function works only in **M.Player** mode. ➔page 18
- By connecting the camcorder to printers with PictBridge support (sold separately), you can send images from the memory card directly to the printer with a few simple operations.
- With the PictBridge support, you can control the printer directly through your camcorder in order to print out stored pictures. For direct printing of your stored pictures using the PictBridge function, you must connect your camcorder to a PictBridge printer using a USB cable.

Connecting To a Printer

1. Turn your printer's power off.
2. Slide the **POWER** switch downwards to turn on the power and set the **Select** switch to **CARD**.
3. Press the **MODE** button to set **Player** ().
4. Press the **MENU** button.
 - The menu list will appear.
5. Move the **Joystick** ( / ) up or down to select "**System**", then press the **Joystick**.
6. Move the **Joystick** ( / ) up or down to select "**USB Connect**", then press the **Joystick**.
7. Move the **Joystick** ( / ) up or down to select "**Printer**", then press the **Joystick**.
 - "**Computer**": Connect to a computer.
 - "**Printer**": Connect to a printer.
(To use the PictBridge function, connect to a printer.)
8. Connect your camcorder to the printer using the provided USB cable.
9. Turn your printer power on.
 - The PictBridge menu screen appears automatically after a short period.
 - The cursor highlights "**Print**".



Selecting Images

Move the **Joystick (◀/▶)** left or right to select an image to print.

- Each press of the **MENU** button toggles between turning PictBridge menu screen on or off.

Setting the Number of Prints

- Move the **Joystick (▲ / ▼)** up or down to select "**Copies**", then press the **Joystick**.
- Move the **Joystick (▲ / ▼)** up or down to set the number of prints, then press the **Joystick**.

Setting the Date/Time Imprint Option

- Move the **Joystick (▲ / ▼)** up or down to select "**Date/Time**", then press the **Joystick**.
- Move the **Joystick (▲ / ▼)** up or down to select the Date/Time display type, then press the **Joystick**.
 - Date/Time display type: "**Off**", "**Date**", "**Time**", "**Date&Time**"

Printing Images

Move the **Joystick (▲ / ▼)** up or down to select "**Print**", then press the **Joystick**, and selected image files will be printed.

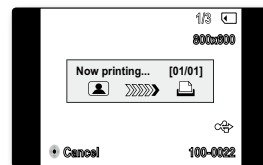
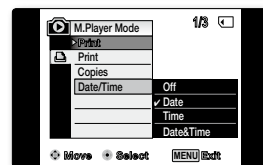
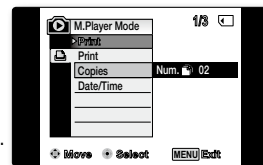
Canceling the Printing

To cancel the image printing, press **Joystick** again.

The message "**Cancel**" appears and the image printing will be cancelled.



- The Date/Time Imprint option may not be supported by all printers. Check with your printer manufacturer.
- The "**Date/Time**" menu cannot be setup if the printer does not support this option.
- The PictBridge™ is a registered trademark of CIPA (Camera & Imaging Products Association), an image transfer standard developed by Canon, Fuji, HP, Olympus, Seiko Epson, and Sony.
- PictBridge supporting printers are commercially available.
- Use the USB cable provided with the camcorder.
- Use the AC power adapter for your camcorder during PictBridge Direct Printing. Turning your camcorder off during printing might damage data on the memory card.
- Printing photo images is supported. Moving images are not available for printing.
- You can set various printing options depending on the printer.
- Please refer to the user's manual of the printer for details.



IEEE 1394 data transfer

TRANSFERRING IEEE1394 (i.LINK)-DV STANDARD DATA CONNECTIONS

Connecting to a DV Device (DVD Recorder, Camcorder, etc.)

- Connecting to other standard DV products.
 - A standard DV connection is quite simple.
 - If a product has a DV jack, you can transfer data by connecting to the DV jack using the correct cable.
(not supplied)
- With a digital connection, video and audio signals are transmitted in digital format, allowing high quality images to be transferred.

Connecting to a PC

- If you want to transmit data to a PC, you must install an IEEE 1394 add-on card into the PC. (not supplied)
- The frame rate for moving images is dependent on the capacity of the PC.

System Requirements

- CPU: faster Intel® Pentium III™ 450MHz compatible.
- Operating system: Windows® 98SE, ME, 2000, XP, VISTA, Mac OS (9.1~10.4)
- Main memory: more than 64 MB RAM
- IEEE1394 add-on card or built in IEEE1394 card



- Operation is not guaranteed for all the recommended computer environments mentioned above.
- IEEE 1394 is an international standard standardized by the Institute of Electrical and Electronics Engineers.
- DV device that does not comply with the DV standard specification may not be supported.
Refer to the product documentation of the device to be connected for further details on notes and compatible software applications.

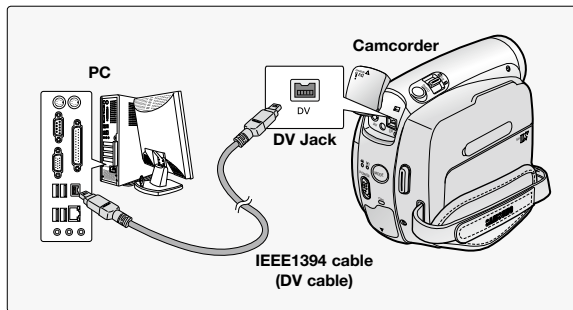


Please be careful since there are two types of DV jacks (4pin, 6pin). This camcorder has a 4pin jack.

Recording with a DV Connection Cable

- **Models with an 'i' suffix do feature DV(IEEE1394)/AV(Analogue) In.**

1. Set the **Select** switch to **TAPE**. (VP-D385(i) only)
2. Press the **MODE** button to set **Player** (▶).
3. Connect the DV cable (not supplied) from the DV jack of the camcorder to the DV jack of the other DV device.
 - Make sure that (DV) is displayed.
4. Press the **Recording start/stop** button to begin REC PAUSE mode.
 - **"PAUSE"** is displayed.
5. Start playback on the other DV device while you monitor the picture.
6. Press the **Recording start/stop** button to start recording.
 - If you want to pause recording momentarily, press the **Recording start/stop** button again.
7. To stop recording, move down the **Joystick** (▼).



- When you transmit data from the camcorder to another DV device, some functions may not work. If this occurs, please reconnect the DV cable or turn the power OFF and ON again.
- When you transmit data from the camcorder to PC, PC function button is not available in **M.Player** mode. (VP-D385(i) only)
- Do not use another DV device when using IEEE1394.
- Do not connect the camcorder to a PC using both DV and USB (VP-D385(i) only) cables. It may not operate properly.
- The IEEE1394 cable (DV cable) is sold separately.
- Moving image software is commercially available.
- Most DV enabled PCs have a 6 pin jack. In this case, a 6pin/4pin cable is required for the connection.
- Most DV enabled notebooks and Laptops have a 4 pin socket. Use a 4pin/4pin cable for the connection.
- DIS and C.Nite features are not available when in DV (IEEE1394) mode.
If DV (IEEE1394) mode is set, DIS and C.Nite modes will be released.
- Search (Forward/Reverse) (camera mode) is not available when in DV (IEEE1394) mode.
- When using this camcorder as a recorder, the pictures that appear on a monitor may seem uneven, however recorded pictures will not be affected.

USB interface (VP-D385(i) only)

USING USB INTERFACE

Transferring a Digital Image through a USB Connection

- The camcorder supports both USB 1.1 and 2.0 standards. (Depends on the PC specification)
- You can transfer a recorded file on a Memory Card to your PC via a USB connection.
- If you transfer data to a PC, you need to install the software (DV Driver, Video Codec, DirectX 9.0) supplied with the Camcorder.

USB Connection Speed depending on the System

High speed USB connection is supported by Microsoft (Windows) device drivers only.

- Windows 2000 - High speed USB on a system with Service Pack 4 or later installed.
- Windows XP - High speed USB on a system with Service Pack 1 or later installed.
- Windows VISTA - High speed USB on a system with Service Pack 1 or later installed.



System Requirements

	Windows System
CPU	Intel® Pentium 4™, 2GHz
OS(Operating System)	Windows® 2000/XP/VISTA * Standard installation is recommended. Operation may not assured if the above OS has been upgraded.
Memory	512MB
HDD capacity	2GB or more
Resolution	1024 x 768 dots 24bit Colour
USB	USB2.0 High Speed

- USB interface is not supported on Macintosh operating systems.
- System requirements mentioned above are recommendations. Even on a system that satisfies the requirements may not ensure the operation depending on the system.










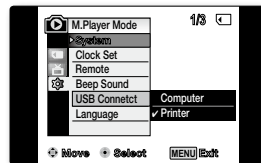
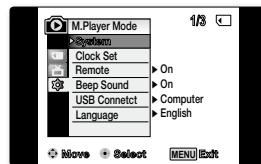
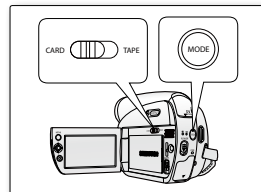
- On a slower PC than recommended, movie playback may not be smooth or video editing may take a long time.
- On a slower PC than recommended, movie playback may skip frames or operate unexpectedly.
- Intel® Pentium III™ or Pentium 4™ is a trademark of the Intel Corporation.
- Windows® is a registered trademark of the Microsoft® Corporation.
- All other brands and names are property of their respective owners.
- Operations are not guaranteed for all of the recommended computer environments mentioned above.
- Do not connect the camcorder to a PC using both DV and USB cables. It may not operate properly.
- In **M.Cam** or **M.Player** mode, be sure that the memory card is inserted into camcorder before connecting USB cable.
- If no memory card or an unformatted memory card is inserted, PC will not recognise your camcorder as a removable disk.
- If you disconnect the USB cable from the PC or the camcorder during the data transfer, the data transfer will stop and the data may be damaged.
- If you connect the USB cable to a PC using a USB HUB or with other devices at the same time, it may cause conflict and may not work properly. If this occurs, remove all other USB devices and try the connection again.

USB interface (MP-D385(i) only)

SELECTING THE USB DEVICE (USB CONNECT)

- USB connect function works only in **M.Player** mode. ➡ page 18
- Using the USB cable, you can connect your camcorder to a computer to copy your moving images and photo images from the memory card, or to a printer to print your images.

1. Set the **Select** switch to **CARD**.
2. Press the **MODE** button to set **Player** ().
3. Press the **MENU** button.
 - The menu list will appear.
4. Move the **Joystick** ( / ) up or down to select "**System**", then press the **Joystick**.
5. Move the **Joystick** ( / ) up or down to select "**USB Connect**", then press the **Joystick**.
6. Move the **Joystick** ( / ) up or down to select "**Computer**" or "**Printer**", then press the **Joystick**.
 - You can select "**Computer**" to use the camcorder as a web camera, USB Stream or removable disk.
 - You can select "**Printer**" to use the Pictbridge feature. ➡ page 90
7. To exit, press the **MENU** button.



INSTALLING THE SOFTWARE (DV MEDIA PRO PROGRAMME)



You need to install DV Media Pro to play back recorded movie files from miniDV camcorder with the USB cable on your PC. When you install the DV Media Pro software on your Windows computer, you can enjoy the following operations by connecting your miniDV camcorder to your computer via a USB cable.

- You have to install **"DV Driver"**, **"Video Codec"** and **"DirectX 9.0"** to run DV Media Pro properly.
- For moving images playback on a PC, install software in this order :**DV Driver - DirectX 9.0 - Video Codec**
- For Web camera install software in this order: **DV Driver - DirectX 9.0 - Video Codec**

Before you start!

- Turn on your PC. Exit all other applications that are running.
 - Insert the provided CD into the CD-ROM drive.
 - The setup screen appears automatically soon after the CD was inserted.
- If the setup screen does not appear, click on "Start" on the bottom left corner and select "Run" to display a dialog. Type "D:\autorun.exe" and then press ENTER, if your CD-ROM drive is mapped to "D: Drive".

Installing Driver - DV Driver and DirectX 9.0

- DV Driver is a software driver that is required to support establishing connection to a PC. (If it is not installed, some functions will not be supported.)
1. Click on "DV Driver" on the setup screen.
 - Driver software required is installed automatically. The following drivers will be installed:
 - USB PC-Camera driver
 2. Click on "Confirm" to finish driver installation.
 3. If the "DirectX 9.0" is not installed, it is installed automatically after setting "DV Driver".
 - After installing DirectX 9.0, PC needs to be restarted.
 - If DirectX 9.0 is installed already, there is no need to restart the PC.



Application Installation - Video Codec

- Click on "Video Codec" on the setup screen.
- Video Codec is required to play movie files recorded by this miniDV camcorder on a PC.

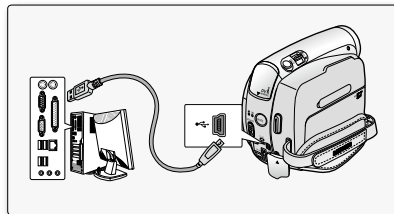


- Please install by using the Software CD that came with this camcorder. We do not guarantee compatibility with other CDs.
- During installation, if the Microsoft LOGO test warning is shown, just click 'Continue(C).'
- If a message saying "Digital Signature not found" or something similar appears, ignore the message and continue with the installation.

USB interface (VP-D385(i) only)

CONNECTING TO A PC

1. Connect a USB cable to the USB jack on the PC.
 - If a USB cable is connected to the camcorder's USB jack, the Audio/Video cable is disabled.
2. Connect the other end of the USB cable into the USB jack on the camcorder. (USB jack)



Disconnecting the USB Cable

- After completing the data transmission, you must disconnect the cable in the following way:
1. Click the "Unplug or eject hardware" icon on the task tray.
 2. Select "USB Mass Storage Device" or "USB Disk," and then click "Stop."
 3. Click "OK."
 4. Disconnect the USB cable from the miniDV camcorder and PC.




- If you disconnect the USB cable from the PC or the camcorder while transferring, the data transmission will stop and the data may be damaged.
- If you connect the USB cable to a PC via a USB HUB or simultaneously connect the USB cable along with other USB devices, the camcorder may not work properly. If this occurs, remove all USB devices from the PC and reconnect the camcorder.

Using the Removable Disk Function



- This function works in both **M.Cam** and **M.Player** modes. ➡ page 18
 - You can easily transfer data from a memory card to a PC without additional cards via a USB connection.
1. Set the **Select** switch to **CARD**.
 2. Press the **MODE** button to set **Camera** () or **Player** ().
 3. Connect one end of the USB cable to the USB jack on the camcorder and the other end to the USB jack on your computer.
 4. To verify whether the removable disk has been properly recognised, open Windows Explorer and locate the removable disk.
 - You can copy the movie and photo images to your PC and play them back.

Using the Web Camera Function

- This function works only in **Camera** mode. ➡page 18
- To use the web camera function, DV Driver, Video Codec and DirectX 9.0 programmes must be installed in the PC. ➡page 97
- When you connect to a web site that provides video chatting functions, you can use your camcorder to participate.
- When using this camcorder for video conferencing (such as net meeting), voice communication may not be supported depending on the video conferencing software. In this case, connect an external microphone to the soundcard of the PC to enable voice communication.
- Using the camcorder with PC Net Meeting Programme installed, you can participate in video conference.
- The web camera's screen size (Transferred video frame rate for the web camera function is max 12.5 fps.)
- 640X480 (VGA) pixels for USB 2.0 connection.

1. Set the **Select** switch to **TAPE**.
2. Press the **MODE** button to set **Camera** ().
3. Connect one end of the USB cable to the USB jack on the camcorder and the other end to the USB connector on your computer.
 - Run a video chatting application such as Windows Messenger and enjoy the video utilization.
 - Various applications take advantage of the PC Cam function. Refer to respective product documentation for further details.



- While the Web Camera is in use, the 16:9 wide mode is not supported. The screen displays in the aspect ratio of 4:3.
- If PC is connected with the USB to the camcorder, only the **POWER** switch, **Select** switch, **Zoom** lever and **Joystick** ( / ) can be operated. (Web Camera)

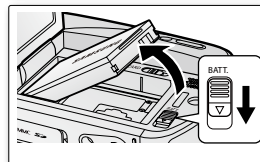
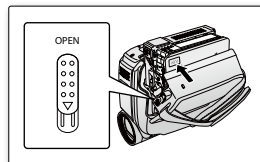
maintenance

AFTER FINISHING A RECORDING

- At the end of a recording you must remove the power source.
- When recording with a battery pack, leaving the pack on the camcorder can reduce the life span of the battery.

The battery pack should be released after recording is completed.

1. Open the cassette compartment cover while sliding the **OPEN** switch in the direction of the arrow.
 - Pull the cassette compartment out automatically.
 - Please wait while the tape is completely ejected.
2. After removing the tape, close the compartment cover and store the camcorder in a dust free environment. Dust and other foreign materials can cause square-shaped noise or jerky images.
3. Turn the miniDV camcorder off.
4. Disconnect the power source or remove the battery pack.
 - Open the LCD panel of the camcorder and slide down the Battery release (**BATT.**) switch, on the left side of the body, to remove the battery with a click.



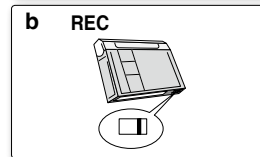
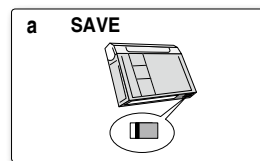
USABLE CASSETTE TAPES

When you have recorded something that you wish to keep, you can protect it so that it will not be accidentally erased.

- a. Protecting a tape: Push the safety tab on the cassette so that the hole is uncovered.
- b. Removing the tape protection:
If you no longer wish to keep the recording on the cassette, push the safety tab back so that it covers the hole.

How to store a tape

- a. Avoid places with magnets or magnetic interference.
- b. Avoid humidity and dust prone places.
- c. Keep the tape in an upright position and avoid storing it in direct sunlight.
- d. Avoid dropping or knocking your tapes.



CLEANING AND MAINTAINING THE CAMCORDER

Cleaning the Video Heads

- To ensure normal recording and clear pictures, clean the video heads when the playback pictures display square block-shaped noise or distortion, or a blue screen appears.
- This function works only in **Player** mode. ➡ page 18

1. Set the **Select** switch to **TAPE**. (VP-D385(i) only)



(blue screen)

2. Press the **MODE** button to set **Player** ().
3. Insert a cleaning tape.
4. Press the **Joystick**.
5. Move down the **Joystick** () after 10 seconds.



- Check the quality of the picture using a video cassette.
 - If the picture quality has not improved, repeat the operation.
- Clean the video heads with a dry type cassette cleaner.
- Some cleaning cassette products stop automatically. Refer to the cleaning cassette's instructions for detailed information. If the problem continues after the cleaning, consult your nearest Samsung dealer or Authorised Service Centre. (blue screen)

maintenance

USING YOUR MINIDV CAMCORDER ABROAD

- Each country or region has its own electric and colour systems.
- Before using your miniDV camcorder abroad, check the following items.

Power sources

The provided AC adaptor features automatic voltage selection in the AC range from 100 V to 240 V. You can use your camcorder in any countries/regions using the AC power adaptor supplied with your camcorder within the AC 100 V to 240 V, 50/60 Hz range.

Use a commercially available AC plug adaptor, if necessary, depending on the design of the wall outlet.

On TV colour systems

Your camcorder is an **PAL**-system-based camcorder.

If you want to view your recordings on a TV or to copy it to an external device, it must be an **PAL**-system-based TV or an external device and have the appropriate Audio/Video jacks. Otherwise, you may need to use a separate video format transcoder (PAL-NTSC format converter).

PAL-compatible countries/regions

Australia, Austria, Belgium, Bulgaria, China, CIS, Czech Republic, Denmark, Egypt, Finland, France, Germany, Greece, Great Britain, Netherlands, Hong Kong, Hungary, India, Iran, Iraq, Kuwait, Libya, Malaysia, Mauritius, Norway, Romania, Saudi Arabia, Singapore, Slovak Republic, Spain, Sweden, Switzerland, Syria, Thailand, Tunisia, etc.

NTSC-compatible countries/regions

Bahamas, Canada, Central America, Japan, Korea, Mexico, Philippines, Taiwan, United States of America, etc.






You can make recordings with your miniDV camcorder and view pictures on the LCD screen from anywhere in the world.

troubleshooting

TROUBLESHOOTING

- Before contacting a Samsung authorised service centre, perform the following simple checks. They may save you the time and expense of an unnecessary call.

Self Diagnosis Display




Display	Blinking	Informs that...	Action
	slow	The battery pack is almost discharged.	Change to a charged one.
Tape end!	slow	When the remaining time on the tape is about 2 minutes.	Prepare a new one.
Tape end!	no	The tape reached its end.	Change to a new one.
No Tape!	slow	There is no tape in camcorder.	Insert a tape.
Protection!	slow	The tape is protected from recording.	If you want to record, release the protection.
D L C R	slow	The camcorder has some mechanical fault.	<ol style="list-style-type: none"> Eject the tape. Turn the camcorder off. Eject the battery pack. Insert the battery pack. <p>* If unresolved contact your local Samsung service centre.</p>
	slow	Moisture condensation has formed in the camcorder.	See page 104.

Self Diagnosis Display in M.Cam/M.Player Modes (VP-D385(i) only)


Display	Blinking	Informs that...	Action
No Memory Card!	slow	There is no memory card in the camcorder.	Insert a memory card.
Memory full!	slow	There is not enough memory to record.	Change to a new memory card. Erase recorded image.
No image!	slow	There are no images recorded on the memory card.	Record new images.
Write protect!	slow	The memory card is record protected.	Release the write protect tab on the memory card.
Protect!	slow	You try to delete a protected image.	Cancel the protection of image.
Read error!	slow	The camcorder can not play back.	Format the memory card or insert a memory card recorded on this camcorder.
Write error!	slow	The camcorder can not record.	Format the memory card or change to a new memory card.
Not formatted!	slow	The memory card needs to format.	Format a memory card. (see page 83)
Now deleting...	slow	When progressing file delete.	Wait until deleting is finished.
Memory Card Error!	slow	The inserted memory card is not recognised by the camcorder.	Eject and re-insert the memory card. Try another memory card.

troubleshooting

- If these instructions do not solve your problem, contact your nearest Samsung authorised service centre.

Symptom	Explanation/Solution
You cannot switch the camcorder on.	Check the battery pack or the AC Power adapter.
Recording start/stop button does not operate while recording.	Press the MODE button to set Camera (). You have reached the end of the cassette. Check the record protection tab on the cassette.
The camcorder shuts off automatically.	You have left the camcorder set to STBY for more than 5 minutes without using it. The battery pack is fully exhausted.
Charge runs out quickly.	The atmospheric temperature is too low. The battery pack has not been charged fully. The battery pack is completely dead, and cannot be recharged. Use another battery pack.
You see a blue screen during playback.	The video heads may be dirty. Clean the head with a cleaning tape.
A vertical strip appears on the screen when recording a dark background.	The contrast between the subject and the background is too great for the camcorder to operate normally. Make the background bright to reduce the contrast or use the BLC function while you are recording in bright surroundings. ➡page 56
Auto focus does not work.	Check the Manual Focus menu. Auto focus does not work in the Manual Focus mode. ➡page 42
FF or REW, Play function Joystick () does not work.	Press the MODE button to set Player (). You have reached the beginning or end of the cassette.
You see a mosaic pattern during playback search.	This is normal operation and it is not a failure or defect. The tape may be damaged. Replace the tape. Cleaning the video heads ➡page 101

Moisture Condensation

- If the camcorder is brought directly from a cold place to a warm place, moisture may condense inside the camcorder, on the surface of the tape, or on the lens. In this condition, the tape may stick to the head drum and be damaged or the unit may not operate correctly.
To prevent possible damage under these circumstances, the camcorder is fitted with a moisture sensor.
- If there is moisture inside the camcorder,  (DEW) is displayed.
If this happens, none of the functions except cassette ejection will work.
Open the cassette compartment and remove the battery.
Leave the camcorder for at least two hours in a dry warm room.

SETTING MENU ITEMS

Main Menu	Sub Menu	Functions	Available Mode				Page
			Camera Mode	Player Mode	M.Cam Mode ②	M.Player Mode ②	
Camera	Program AE	Selecting the Program AE Function	✓				47, 48
	White Balance	Setting the White Balance	✓		✓		49, 50
	Visual Effect	Setting the Digital special effect	✓				51, 52
	16:9 Wide	Setting the 16:9 Wide Function	✓				53
	Macro	Setting the Macro Function	✓		✓		54
	DIS	Selecting the Digital Image Stabilizing	✓				55
	BLC	Setting the BLC Function	✓		✓		56
	Digital Zoom	Selecting the Digital Zoom	✓				57
	C.Nite	Selecting the Colour Nite	✓				58
	Light ①	Selecting the Light	✓		✓		59
Tape	Photo Search	Searching pictures recorded on a tape		✓			61
	Photo Copy	Copying photo images from a cassette to memory card		✓			88
	Audio Select	Selecting the Audio playback channel		✓			66
	Audio Effect	Selecting the Audio Effect		✓			67
Record	Rec Mode	Selecting the recording speed	✓	✓			44
	Audio Mode	Selecting Sound Quality for recording	✓	✓			44
	WindCut Plus	Minimising wind noise	✓	✓			45
	Real Stereo	Selecting the Real Stereo	✓				46
	AV In/Out ③	Selecting the AV input/output		✓			68
Memory ②	File No.	File Numbering Options			✓		77
	M.Play Select	Selecting Storage Media (Photo, Movie) to playback				✓	86
	Delete	Deleting Files				✓	81
	Delete All	Deleting All files				✓	82
	Protect	Preventing Accidental Erasure				✓	80
	Print Mark	Print images recorded on a memory card				✓	89
	Format	Formatting the memory card				✓	83

troubleshooting

SETTING MENU ITEMS

Main Menu	Sub Menu	Functions	Available Mode				Page
			Camera Mode	Player Mode	M.Cam Mode ②	M.Player Mode ②	
Display	Guideline	Setting the Guideline	✓		✓		30
	LCD Bright	Setting the Brightness tone of the LCD Screen	✓	✓	✓	✓	31
	LCD Colour	Setting the Colour tones of the LCD Screen	✓	✓	✓	✓	31
	Date/Time	Setting the Date and Time	✓	✓	✓	✓	32
	TV Display	Selecting OSD on/off of TV	✓	✓	✓	✓	33
System	Clock Set	Setting the Clock Set	✓	✓	✓	✓	24
	Remote ④	Using the remote control	✓	✓	✓	✓	25
	Beep Sound	Setting the Beep sound	✓	✓	✓	✓	26
	Shutter Sound	Setting the Shutter sound	✓	✓	✓		27
	USB Connect ②	Setting the USB				✓	96
	Language	Selecting the OSD language	✓	✓	✓	✓	28
	Demonstration	Demonstration	✓				29

① : VP-D382(i)/D382H/D384/D385(i) only

② : VP-D385(i) only

③ : VP-D381i/D382i/D385i only

④ : VP-D382(i)/D382H/D385(i) only

ABOUT THIS USER MANUAL

- This user manual covers models VP-D381, VP-D381 i , VP-D382, VP-D382 i ,VP-D382H, VP-D384, VP-D385 and VP-D385 i.

Although the external appearances of VP-D381(i)/D382(i)/D382H/D384 and VP-D385(i) are different, they operate in the same way.

- Illustrations of model VP-D385(i) are used in this user manual.
- The displays in this user manual may not be exactly the same as those you see on the LCD screen.
- Designs and specifications of the camcorder and other accessories are subject to change without any notice.
- This user manual covers the complete range of VP-DXXX digital video camcorders including non DV(IEEE1394)/AV(Analog) In and DV(IEEE1394)/AV(Analog) In versions of the same models. Please note that models without an 'i' suffix do not feature DV(IEEE1394)/AV(Analog) In. Models with an 'i' suffix do feature DV(IEEE1394)/AV(Analog) In.
- The models, VP-D381(i)/D382(i)/D382H/D384 use Tape exclusively. The models, VP-D385(i) have two storage media, Tape and Card.

specifications

MODEL NAME: VP-D381(i)/ VP-D382(i)/ VP-D382H/ VP-D384/ VP-D385(i)

System	
Video signal	PAL
Video recording system	2 rotary heads, Helical scanning system
Audio recording system	Rotary heads, 12/16b PCM system
Usable cassette	Digital video tape (6.35mm width): Mini DV cassette
Tape speed	SP: approx. 18.83mm/s LP: approx. 12.57mm/s
Tape recording time	SP: 60 minutes (when using DVM 60), LP: 90 minutes (when using DVM 60)
FF/REW time	Approx. 150 sec. (using DVM60 tape)
Image device	CCD (Charge Coupled Device) : 800K Pixels
Lens	F1.6 34x, 1200x (Digital) Electronic zoom lens
Filter diameter	Ø30
LCD Screen	
Size/dot number	2.7inch 112K
LCD Screen Method	TFT LCD
Connectors	
Video output	1Vp-p (75Ω terminated)
Audio output	-7.5dBs (600Ω terminated)
DV input/output	4pin special in/out connector
USB output (VP-D385(i) only)	Mini-B type connector (USB2.0 High Speed)
General	
Power source	DC 8.4V, Lithium Ion Battery Pack 7.4V
Power source type	Battery Pack, Power supply (100V~240V) 50/60Hz
Power consumption (Recording)	3.7W
Operating temperature	0°~40°C (32°F~104°F)
Storage temperature	-20°C ~ 60°C (-4°F ~ 140°F)
External dimension	Height : 61mm (2.40"), Length : 95mm (3.74"), Width : 112mm (4.40")
Weight	340g (0.75lb) (Except for Battery Pack and tape)
Internal Microphone	Omni-directional stereo microphone
Remote control (VP-D382(i)/D382H/D385(i) only)	Indoors: greater than 49ft (15m) (straight line), Outdoors: about 16.4ft (5m) (straight line)

- The technical specifications and design may be changed without notice.

power sources (united kingdom only)

The mains lead on the power adapter is supplied with a moulded plug incorporating a fuse.

The value of the fuse is marked on the pin face of the plug and, if it requires replacing, a fuse approved to BS1362 of the same rating must be used.

Never use the plug with the fuse cover omitted if the cover is detachable.

If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug.

Replacement covers are available from your dealer.

If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance.

However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose the plug.

DO NOT connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

BLUE = NEUTRAL BROWN = LIVE


As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:

The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK.

The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.



WARNING

Do not connect either wire to the earth terminal marked with the letter E or the earth symbol, , or coloured GREEN or GREEN and YELLOW.



This page is applicable to Great Britain only.



UNITED KINGDOM

This Samsung product is warranted for the period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should return the product to the retailer from whom it was purchased.

However, Samsung Authorised Dealers and Authorised Service Centres in other EC Countries will comply with the warranty on the terms issued to purchasers in the country concerned.

In case of difficulty, details of our Authorised Service Centres are available from:

Samsung Electronics U.K. Ltd.
Customer Care Centre PO Box 17243 Edinburgh,
EH11 4YB United Kingdom

United Kingdom
Tel : 0845 SAMSUNG (7267864)
Fax : 0845 650 8080
Web : www.samsung.com

EIRE

Tel : 0818 717 100
Fax : +44 (0)131 202 0630
Web : www.samsung.com

■ WARRANTY CONDITIONS

1. The warranty is only valid if, when warranty service is required, the warranty card is fully and properly completed and is presented with the original invoice or sales slip or confirmation, and the serial number on the product has not been defaced.
2. Samsung's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.



EIRE

3. Warranty repairs must be carried out by Authorised Samsung Dealers or Authorised Service Centres. No re-imbusement will be made for repairs carried out by non Samsung Dealers and, any such repair work and damage to the products caused by such repair work will not be covered by this warranty.
4. This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any Country other than the one for which the product was originally designed and manufactured. This warranty will not cover, and no re-imbusement will be made for such adaptation nor any damage which may result.
5. This warranty covers none of the following:
 - a) Periodic check ups, maintenance and repair or replacement of parts due to normal wear and tear.
 - b) Cost relating to transport, removal or installation of the product.
 - c) Misuse, including the failure to use this product for its normal purposes or incorrect installation.
 - d) Damage caused by Lightning, Water, Fire, Acts of God, War, Public Disturbances, incorrect mains voltage, improper ventilation or any other cause beyond the control of Samsung.
6. This warranty is valid for any person who legally acquired possession of the product during the warranty period.
7. The consumers statutory rights in any applicable national legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this warranty. Unless there is national legislation to the contrary, the rights under this warranty are the consumers sole rights and Samsung, its subsidiaries and distributors shall not be liable for indirect or consequential loss or any damage to records, compact discs, videos or audio taper or any other related equipment or material.

SAMSUNG ELECTRONICS (U.K.) LTD.



ΕΛΛΑΣ (GREECE)

Αγαπητέ πελάτη,
Σας ευχαριστούμε για την εμπιστοσύνη που δείξατε στην SAMSUNG με την αγορά αυτής της συσκευής. Το προϊόν αυτό της SAMSUNG είναι εγγυημένο για περίοδο δώδεκα (12) μηνών από την ημερομηνία αγοράς του για ανταλλακτικά και εργατικά. Στην περίπτωση που θα χρειαστεί επισκευή, το προϊόν αυτό της SAMSUNG θα πρέπει να σταλεί ή να μεταφερθεί στο εξουσιοδοτημένο service, με έξοδα του αγοραστή. Εξουσιοδοτημένοι αντιπρόσωποι και εξουσιοδοτημένα κέντρα service σε άλλες Ευρωπαϊκές χώρες, θα αποδεχθούν τους όρους της εγγύησης. Πληροφορίες για τα εξουσιοδοτημένα κέντρα service στην Ελλάδα, μπορείτε να πάρετε από την

FOURLIS TRADE A.E.B.E.

Λ. Κρουονιρίου 112

145 68 Κρουονέρι, Αττικής

Τηλ. 210.629.3100

■ Όροι της εγγύησης

1. Η εγγύηση ισχύει εάν και μόνο εάν το προϊόν χρειάζεται service και η κάρτα εγγύησης έχει πλήρως συμπληρωθεί και σφραγισθεί από το κατάστημα αγοράς. Επίσης πρέπει να προσκομισθεί και το τιμολόγιο ή η απόδειξη λιανικής πώλησης, πάνω στην οποία ο σειριακός αριθμός του προϊόντος πρέπει να είναι ευκρινής.
2. Η υποχρέωση της SAMSUNG αφορά μόνο την επισκευή του προϊόντος

3. Η επισκευή του προϊόντος πρέπει να ανατίθεται μόνο σε εξουσιοδοτημένα κέντρα service ή εξουσιοδοτημένους αντιπροσώπους της SAMSUNG. Καμία αποζημίωση δεν θα γίνει αποδεκτή για επισκευή που έχει γίνει από μη εξουσιοδοτημένο από την SAMSUNG συνεργείο.
4. Το προϊόν αυτό δεν θα θεωρηθεί ελαττωματικό στα υλικά ή στην εργασία επισκευής εάν θα πρέπει να προσαρμοστεί, μετατραπεί ή ρυθμιστεί ώστε να συμμορφωθεί με τις τοπικές τεχνικές προδιαγραφές ή προδιαγραφές που ισχύουν σε χώρα άλλη από αυτή για την οποία προοριζόταν ή κατασκευάστηκε. Η εγγύηση αυτή δεν καλύπτει αποζημιώσεις για:
 - * Κεφαλές βίντεο και κασетоφώνων
 - * Κεφαλές βιντεοκάμερας
 - * Γεννήτριες ακτινών laser στα CD, DND
 - * Τηλεχειριστήρια
 - * Λυχνίες φούρνων μικροκυμάτων
 - * Προσαρμογές, μετατροπές ή ρυθμίσεις, ανεξάρτητα αν είναι επιτυχείς ή ανεπιτυχείς, ούτε οποιαδήποτε ζημία προέρχεται εξ αυτού...

5. Η εγγύηση αυτή δεν καλύπτει καμία από τις παρακάτω περιπτώσεις:

- * Περιοδικούς ελέγχους, συντήρησης και επισκευή ή αντικατάσταση μερών που οφείλονται σε φυσιολογική φθορά
- * Τα έξοδα και τους κινδύνους μεταφοράς που σχετίζονται με την εγγύηση αυτού του προϊόντος

* Ζημία σε αυτό το προϊόν που προέρχεται από:

A. Κατάχρηση ή και κακή χρήση, συμπεριλαμβανομένης αλλά και μη περιορισμένης σε:
Μη χρήση αυτού του προϊόντος για τους σκοπούς που φυσιολογικά προορίζεται ή σύμφωνα με τις οδηγίες χρήσεως για την σωστή χρήση και συντήρηση αυτού του προϊόντος

Την εγκατάσταση και χρήση του προϊόντος με τρόπους που αντίκεινται στις τεχνικές προδιαγραφές ασφαλείας που ισχύουν κατά την χρήση του προϊόντος

B. Επισκευή που έγινε από μη εξουσιοδοτημένα συνεργεία service

Γ. Ατυχήματα, θεομηνίες ή οποιαδήποτε αιτία πέρα του ελέγχου της SAMSUNG, συμπεριλαμβανομένων αλλά μη περιορισμένων των κεραυνών, του νερού, της φωτιάς, των δημοσίων αναταραχών, του κακού αερισμού κ.λπ.

Δ. Η εγγύηση αυτή δεν επηρεάζει τα δικαιώματα του καταναλωτή που προβλέπονται από την εφαρμοστέα εθνική νομοθεσία που ισχύει, ούτε τα δικαιώματα των καταναλωτών εναντίον των λιανοπωλητών που απορρέουν από την σύμβαση πώλησης.

Ε. Σε περίπτωση που δεν υπάρχει εθνική νομοθεσία αυτή η εγγύηση θα είναι η μοναδική και αποκλειστική κάλυψη του καταναλωτή για κάθε ζημία.

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RoHS compliant

Our product complies with "The Restriction of the Use of Certain Hazardous Substances in Electrical And Electronic Equipment", and we do not use the 6 hazardous materials- Cadmium(Cd), Lead (Pb), Mercury (Hg), Hexavalent Chromium (Cr+6), Poly Brominated Biphenyls (PBBs), Poly Brominated Diphenyl Ethers(PBDEs)- in our products.

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